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OM nucleic - nucleic search, using sw model

Run on: September 28, 2005, 10:15:44 ; Search time 237.217 Seconds  
(without alignments)  
9422.396 Million cell updates/sec

**Title:** US-09-944-896-49 COPY 123 1488

Perfect score: 1366

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Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB geo length: 0

Minimum	DB seq	length: 0
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Post-processing: Minimum Match 0%

Post-processing: Minimum Match 0%  
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Listing first 1500 summaries

Database : Taxied Parents NA.\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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1	1366	100.0	1876	4	US-09-866-028-49	Sequence 49, Appl	
2	1366	100.0	1876	4	US-09-944-457-49	Sequence 49, Appl	
3	672.8	49.3	690	3	US-09-404-879A-321	Sequence 321, App	
4	672.8	49.3	690	4	US-09-667-857-321	Sequence 321, App	
5	55.2	4.0	2179	4	US-09-774-528-356	Sequence 356, App	
6	55.2	4.0	4448	4	US-09-919-039-22	Sequence 22, Appl	
7	48.4	3.5	6763	4	US-09-949-016-3399	Sequence 3399, Ap	
8	48.4	3.5	13857	4	US-09-620-312D-75	Sequence 75, Appl	
9	48.4	3.5	54534	4	US-09-949-016-15141	Sequence 15141, A	
10	47.8	3.5	582	3	US-09-433-248A-3	Sequence 3, Appl	
11	45	3.3	45	4	US-09-866-028-53	Sequence 53, Appl	
12	45	3.3	45	4	US-09-944-457-53	Sequence 53, Appl	
13	44.6	3.3	17938	4	US-09-902-540-1111	Sequence 1111, Ap	
14	43.6	3.2	1026	4	US-09-902-540-9683	Sequence 9683, Ap	
15	43.6	3.2	13637	4	US-09-902-540-1097	Sequence 1097, Ap	
16	43.4	3.2	1155	2	US-08-387-942C-18	Sequence 18, Appl	
17	43.4	3.2	12588	2	US-08-387-942C-1	Sequence 1, Appl	
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23	40.8	3.0	4724	1	US-08-404-671-3	Sequence 3, Appl	
24	40.8	3.0	4724	1	US-08-404-781-3	Sequence 3, Appl	
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26	40.2	2.9	4018	4	US-09-902-540-620	Sequence 620, App	
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c 103	37	2.7	1221	4	US-09-252-991A-2611	Sequence 2611, Ap	c 176	36	2.6	2175	4	US-10-267-311-44	Sequence 44, Appl
c 104	37	2.7	1665	4	US-09-902-540-257	Sequence 257, App	c 177	36	2.6	7109	4	US-09-902-540-922	Sequence 922, App
c 105	37	2.7	2348	3	US-08-990-823-61	Sequence 823-61, Appl	c 178	35.8	2.6	462	4	US-09-252-991A-3372	Sequence 3372, Ap
c 106	37	2.7	2348	4	US-09-477-135A-61	Sequence 61, Appl	c 179	35.8	2.6	601	4	US-09-949-016-138275	Sequence 138275, Ap
c 107	36.8	2.7	1662	4	US-09-252-991A-1137	Sequence 1137, Ap	c 180	35.8	2.6	666	4	US-09-252-991A-5083	Sequence 5083, Ap
c 108	36.8	2.7	1839	4	US-09-252-991A-945	Sequence 945, App	c 181	35.8	2.6	1047	4	US-09-252-991A-5135	Sequence 5135, Ap
c 109	36.8	2.7	13018	4	US-09-949-016-14767	Sequence 14767, A	c 182	35.8	2.6	1638	4	US-09-799-451-412	Sequence 412, App
c 110	36.8	2.7	13090	4	US-09-949-016-12450	Sequence 12450, A	c 183	35.8	2.6	2487	4	US-09-902-540-3591	Sequence 3591, App
c 111	36.8	2.7	13090	4	US-09-949-016-14372	Sequence 14372, A	c 184	35.8	2.6	3102	4	US-09-902-540-4040	Sequence 4040, Ap
c 112	36.6	2.7	435	4	US-09-252-991A-5863	Sequence 5863, A	c 185	35.8	2.6	3575	4	US-09-023-655-1395	Sequence 1395, Ap
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c 116	36.6	2.7	1329	4	US-09-252-991A-5804	Sequence 5804, Ap	c 189	35.8	2.6	153642	4	US-09-949-016-12174	Sequence 12174, A
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c 118	36.6	2.7	152393	4	US-09-949-016-14514	Sequence 14514, A	c 191	35.8	2.6	411529	3	US-09-103-840A-1	Sequence 1, Appl
c 119	36.6	2.7	152393	4	US-09-949-016-14515	Sequence 14515, A	c 192	35.6	2.6	1125	4	US-09-902-540-4102	Sequence 4102, Ap
c 120	36.6	2.7	156894	4	US-09-949-016-12765	Sequence 12765, A	c 193	35.6	2.6	1776	4	US-09-902-540-7046	Sequence 7046, Ap
c 121	36.6	2.7	156894	4	US-09-949-016-12766	Sequence 12766, A	c 194	35.6	2.6	3283	3	US-09-651-656-16	Sequence 16, Appl
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c 123	36.6	2.7	156895	4	US-09-949-016-16958	Sequence 16958, A	c 196	35.6	2.6	4094	4	US-09-949-016-2416	Sequence 2416, Ap
c 124	36.6	2.7	156895	4	US-09-949-016-16959	Sequence 16959, A	c 197	35.6	2.6	4532	4	US-09-902-540-626	Sequence 626, App
c 125	36.6	2.7	767677	4	US-09-949-016-12147	Sequence 12147, A	c 198	35.6	2.6	23738	4	US-09-902-540-1203	Sequence 1203, Ap
c 126	36.6	2.7	767677	4	US-09-949-016-17361	Sequence 17361, A	c 199	35.6	2.6	40586	4	US-09-949-016-16965	Sequence 16965, A
c 127	36.4	2.7	945	4	US-09-902-540-8070	Sequence 8070, Ap	c 200	35.6	2.6	105210	4	US-09-949-016-14158	Sequence 14158, A
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c 129	36.4	2.7	1227	3	US-09-290-136-3	Sequence 3, Appl	c 202	35.4	2.6	874	4	US-09-023-655-1377	Sequence 1377, App
c 130	36.4	2.7	1227	3	US-09-902-540-823	Sequence 823, App	c 203	35.4	2.6	874	4	US-09-976-594-323	Sequence 323, App
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c 135	36.2	2.7	970	3	US-09-199-887-2	Sequence 2, Appl	c 208	35.2	2.6	1032	1	US-08-457-797A-4	Sequence 4, Appl
c 136	36.2	2.7	1152	4	US-09-252-991A-7652	Sequence 7652, Ap	c 209	35.2	2.6	1032	1	US-08-812-025-4	Sequence 4, Appl
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c 138	36.2	2.7	1335	4	US-09-252-991A-765	Sequence 765, App	c 211	35.2	2.6	2194	4	US-09-252-991A-14221	Sequence 14221, A
c 139	36.2	2.7	1383	4	US-09-252-991A-7737	Sequence 7737, Ap	c 212	35.2	2.6	2659	4	US-09-902-540-8458	Sequence 8458, Ap
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c 142	36.2	2.7	1436	4	US-09-788-345-11	Sequence 11, Appl	c 215	35.2	2.6	3468	2	US-08-459-448A-2	Sequence 2, Appl
c 143	36.2	2.7	1524	4	US-09-252-991A-737	Sequence 737, App	c 216	35.2	2.6	3468	3	US-08-459-448A-4	Sequence 4, Appl
c 144	36.2	2.7	1641	4	US-09-252-991A-646	Sequence 646, App	c 217	35.2	2.6	3468	3	US-08-459-595A-2	Sequence 2, Appl
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c 146	36.2	2.7	1782	4	US-09-252-991A-6680	Sequence 6680, Ap	c 219	35.2	2.6	3468	3	US-08-459-504B-2	Sequence 2, Appl
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c 151	36.2	2.7	1875	4	US-09-903-603A-284	Sequence 284, App	c 224	35.2	2.6	3468	3	US-09-053-549-5	Sequence 5, Appl
c 152	36.2	2.7	1875	4	US-09-904-920A-284	Sequence 284, App	c 225	35.2	2.6	3468	3	US-09-547-422-4	Sequence 4, Appl
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c 154	36.2	2.7	1875	4	US-09-905-381A-284	Sequence 284, App	c 227	35.2	2.6	3468	3	US-09-988-462-2	Sequence 2, Appl
c 155	36.2	2.7	1875	4	US-09-906-618A-284	Sequence 284, App	c 228	35.2	2.6	3468	3	US-09-988-462-4	Sequence 4, Appl
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c 157	36.2	2.7	2997	4	US-09-252-991A-7831	Sequence 7831, Ap	c 230	35.2	2.6	3546	3	US-08-459-448A-14	Sequence 14, Appl
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c 159	36.2	2.7	13842	3	US-09-105-537-30	Sequence 30, Appl	c 232	35.2	2.6	3546	3	US-08-459-504B-14	Sequence 14, Appl
c 160	36.2	2.7	36778	3	US-09-320-878-19	Sequence 19, Appl	c 233	35.2	2.6	3546	3	US-08-459-444-14	Sequence 14, Appl
c 161	36.2	2.7	38506	3	US-09-141-908-1	Sequence 1, Appl	c 234	35.2	2.6	3546	3	US-09-547-422-14	Sequence 14, Appl
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c 163	36.2	2.7	38506	4	US-09-657-440-19	Sequence 19, Appl	c 236	35.2	2.6	8590	4	US-09-902-540-889	Sequence 889, App
c 164	36	2.6	3207	4	US-09-252-991A-11817	Sequence 11817, A	c 237	35.2	2.6	8854	3	US-09-053-549-1	Sequence 1, Appl
c 165	36	2.6	505	4	US-09-621-976-15639	Sequence 15639, A	c 238	35.2	2.6	9497	4	US-09-902-540-1054	Sequence 1054, Ap
c 166	36	2.6	819	4	US-09-902-540-8704	Sequence 8704, Ap	c 239	35.2	2.6	85850	4	US-09-949-016-13424	Sequence 13424, A
c 167	36	2.6	1097	4	US-09-270-767-14079	Sequence 14079, A	c 240	35	2.6	451	3	US-09-370-838-146	Sequence 146, App
c 168	36	2.6	1197	4	US-09-252-991A-13715	Sequence 13715, A	c 241	35	2.6	451	4	US-09-854-133-146	Sequence 146, App
c 169	36	2.6	1422	4	US-09-252-991A-13630	Sequence 13630, A	c 242	35	2.6	546	4	US-09-902-540-5394	Sequence 5394, Ap
c 170	36	2.6	1614	4	US-09-252-991A-13818	Sequence 13818, A	c 243	35	2.6	684	4	US-09-902-540-5588	Sequence 5588, Ap
c 171	36	2.6	1686	4	US-09-252-991A-11503	Sequence 11503, A	c 244	35	2.6	742	4	US-09-451-739B-3	Sequence 3, Appl
c 172	36	2.6	1878	4	US-09-501-097A-10	Sequence 10, Appl	c 245	35	2.6	857	4	US-09-451-739B-4	Sequence 4, Appl
c 173	36	2.6	1920	4	US-09-252-991A-11882	Sequence 11882, A	c 246	35	2.6	1419	4	US-09-902-540-8757	Sequence 8757, Ap

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276	34.8	2.5	29771	4	US-09-949-016-12754	Sequence 12754, A	349	34.2	2.5	1119	3	US-08-987-943-2	Sequence 2, Appl1
277	34.8	2.5	29771	4	US-09-949-016-13956	Sequence 13956, A	350	34.2	2.5	1152	2	US-08-387-942C-7	Sequence 7, Appl1
278	34.8	2.5	57320	4	US-09-949-016-13983	Sequence 13983, A	351	34.2	2.5	1272	4	US-09-252-991A-7776	Sequence 7776, Ap
279	34.6	2.5	306	3	US-09-147-935A-40	Sequence 40, Appl	352	34.2	2.5	1446	4	US-09-252-991A-6746	Sequence 6746, Ap
280	34.6	2.5	471	2	US-09-252-991A-263	Sequence 263, Appl	353	34.2	2.5	1755	4	US-08-987-943-1	Sequence 1, Appl1
281	34.6	2.5	621	2	US-08-381-881-5	Sequence 5, Appl	354	34.2	2.5	1755	4	US-09-902-540-3039	Sequence 3039, Ap
282	34.6	2.5	621	3	US-09-281-221-5	Sequence 5, Appl1	355	34.2	2.5	2194	4	US-09-023-655-668	Sequence 668, Appl
283	34.6	2.5	743	4	US-09-570-214B-6	Sequence 6, Appl1	356	34.2	2.5	2576	1	US-08-471-033-35	Sequence 35, Appl
284	34.6	2.5	771	4	US-09-902-540-3468	Sequence 3468, Ap	357	34.2	2.5	2576	2	US-08-471-044-35	Sequence 35, Appl
285	34.6	2.5	813	4	US-09-252-991A-273	Sequence 273, Appl	358	34.2	2.5	2576	2	US-08-463-483A-35	Sequence 35, Appl
286	34.6	2.5	837	4	US-09-252-991A-288	Sequence 288, Appl	359	34.2	2.5	2576	2	US-08-471-046A-35	Sequence 35, Appl
287	34.6	2.5	1017	4	US-09-252-991A-249	Sequence 249, Appl	360	34.2	2.5	2576	2	US-08-470-566B-35	Sequence 35, Appl
288	34.6	2.5	1299	4	US-09-252-991A-8119	Sequence 8119, Ap	361	34.2	2.5	2576	2	US-08-469-334-35	Sequence 35, Appl
289	34.6	2.5	1392	4	US-09-252-991A-8186	Sequence 8186, Ap	362	34.2	2.5	2576	3	US-09-300-529-35	Sequence 35, Appl
290	34.6	2.5	1415	4	US-09-902-540-5962	Sequence 5962, Ap	363	34.2	2.5	2655	1	US-08-471-033-17	Sequence 17, Appl
291	34.6	2.5	1467	4	US-09-252-991A-8763	Sequence 8763, Ap	364	34.2	2.5	2655	1	US-08-471-033-26	Sequence 26, Appl
292	34.6	2.5	1495	4	US-09-902-540-203	Sequence 203, Appl	365	34.2	2.5	2655	2	US-08-471-044-17	Sequence 17, Appl
293	34.6	2.5	1524	4	US-09-252-991A-259	Sequence 259, Appl	366	34.2	2.5	2655	2	US-08-471-044-26	Sequence 26, Appl
294	34.6	2.5	1680	4	US-09-252-991A-8121	Sequence 8121, Ap	367	34.2	2.5	2655	2	US-08-463-483A-17	Sequence 17, Appl
295	34.6	2.5	2089	4	US-09-949-016-5230	Sequence 5230, Ap	368	34.2	2.5	2655	2	US-08-463-483A-26	Sequence 26, Appl
296	34.6	2.5	2159	3	US-08-286-870A-7	Sequence 7, Appl1	369	34.2	2.5	2655	2	US-08-471-046A-17	Sequence 17, Appl
297	34.6	2.5	2190	3	US-09-015-188-1	Sequence 1, Appl1	370	34.2	2.5	2655	2	US-08-471-046A-26	Sequence 26, Appl
298	34.6	2.5	2876	4	US-09-252-991A-9024	Sequence 9024, Ap	371	34.2	2.5	2655	2	US-08-470-566B-17	Sequence 17, Appl
299	34.6	2.5	4449	4	US-09-799-451-378	Sequence 378, Appl	372	34.2	2.5	2655	2	US-08-470-566B-26	Sequence 26, Appl
300	34.6	2.5	16541	4	US-09-902-540-1165	Sequence 1165, Ap	373	34.2	2.5	2655	2	US-08-469-334-17	Sequence 17, Appl
301	34.6	2.5	24741	4	US-09-949-016-15547	Sequence 15547, A	374	34.2	2.5	2655	2	US-08-469-334-26	Sequence 26, Appl
302	34.4	2.5	396	4	US-09-902-540-2821	Sequence 2821, Ap	375	34.2	2.5	2655	3	US-09-300-529-17	Sequence 17, Appl
303	34.4	2.5	596	4	US-09-902-540-5976	Sequence 5976, Ap	376	34.2	2.5	2655	3	US-09-300-529-26	Sequence 26, Appl
304	34.4	2.5	601	4	US-09-949-016-76256	Sequence 76256, A	377	34.2	2.5	4031	1	US-08-471-033-49	Sequence 49, Appl
305	34.4	2.5	609	4	US-09-252-991A-11755	Sequence 11755, A	378	34.2	2.5	4031	2	US-08-471-044-49	Sequence 49, Appl
306	34.4	2.5	797	3	US-09-183-861-23	Sequence 23, Appl	379	34.2	2.5	4031	2	US-08-463-483A-49	Sequence 49, Appl
307	34.4	2.5	797	3	US-09-022-765-23	Sequence 23, Appl	380	34.2	2.5	4031	2	US-08-471-046A-49	Sequence 49, Appl
308	34.4	2.5	797	4	US-09-551-974A-23	Sequence 23, Appl	381	34.2	2.5	4031	2	US-08-470-566B-49	Sequence 49, Appl
309	34.4	2.5	797	4	US-09-565-501A-23	Sequence 23, Appl	382	34.2	2.5	4031	2	US-08-469-334-49	Sequence 49, Appl
310	34.4	2.5	797	4	US-09-639-206A-23	Sequence 23, Appl	383	34.2	2.5	4031	3	US-09-300-529-49	Sequence 49, Appl
311	34.4	2.5	797	4	US-09-874-923-23	Sequence 23, Appl	384	34.2	2.5	5105	4	US-09-902-540-791	Sequence 791, Appl
312	34.4	2.5	797	4	US-08-798-841-23	Sequence 23, Appl	385	34.2	2.5	10434	4	US-09-949-016-12258	Sequence 12258, A
313	34.4	2.5	825	4	US-09-252-991A-5019	Sequence 5019, Ap	386	34.2	2.5	14377	2	US-08-804-227C-7	Sequence 14654, A
314	34.4	2.5	960	4	US-09-252-991A-5085	Sequence 5085, Ap	387	34.2	2.5	44377	2	US-08-804-198-1	Sequence 1, Appl1
315	34.4	2.5	1056	4	US-09-252-991A-10766	Sequence 10766, A	388	34.2	2.5	44377	2	US-08-804-198-1	Sequence 1, Appl1
316	34.4	2.5	1086	4	US-09-252-991A-11554	Sequence 11554, A	389	34	2.5	364	4	US-09-621-976-17202	Sequence 17202, A
317	34.4	2.5	1128	4	US-09-252-991A-1077	Sequence 1077, Ap	390	34	2.5	399	4	US-09-621-976-8976	Sequence 8976, Ap
318	34.4	2.5	1191	4	US-09-252-991A-1025	Sequence 1025, Ap	391	34	2.5	601	4	US-09-949-016-36596	Sequence 36596, A
319	34.4	2.5	1200	4	US-09-252-991A-1033	Sequence 1033, Ap	392	34	2.5	601	4	US-09-949-016-142212	Sequence 142212, A

393	34	2.5	641	4	US-10-101-464A-290	Sequence 290, App	C 466	33.6	2.5	4230	4	US-09-252-991A-5711	Sequence 5711, Ap
394	34	2.5	1101	3	US-09-252-991A-9455	Sequence 9455, Ap	467	33.6	2.5	4941	4	US-09-252-991A-5741	Sequence 5741, Ap
395	34	2.5	1203	3	US-09-086-010-1	Sequence 1, Appli	468	33.6	2.5	6049	4	US-08-793-273C-3	Sequence 3, Appli
396	34	2.5	1455	4	US-09-620-312D-885	Sequence 885, App	469	33.6	2.5	6049	5	PCT-US95-11684-3	Sequence 3, Appli
397	34	2.5	1551	4	US-09-902-540-6712	Sequence 6712, Ap	470	33.6	2.5	9198	4	US-09-902-540-966	Sequence 966, App
398	34	2.5	1596	4	US-09-252-991A-9478	Sequence 9478, Ap	471	33.6	2.5	13234	4	US-09-902-540-986	Sequence 986, App
399	34	2.5	1650	4	US-09-252-991A-9352	Sequence 9352, Ap	472	33.6	2.5	18031	4	US-09-902-540-1180	Sequence 1180, Ap
400	34	2.5	2055	3	US-08-872-855-3	Sequence 3, Appli	473	33.6	2.5	19503	4	US-09-949-016-16528	Sequence 16528, A
401	34	2.5	2055	3	US-08-872-855-3	Sequence 3, Appli	474	33.6	2.5	19503	4	US-09-949-016-16528	Sequence 16528, A
402	34	2.5	2552	4	US-09-641-612-10	Sequence 10, Appl	475	33.6	2.5	27707	4	US-09-902-540-1236	Sequence 1236, A
403	34	2.5	2552	4	US-09-902-540-3407	Sequence 3407, Ap	476	33.6	2.5	134890	4	US-09-949-016-15602	Sequence 15602, A
404	34	2.5	2765	4	US-09-949-016-3992	Sequence 3992, Ap	477	33.4	2.4	444	4	US-09-252-991A-1153	Sequence 1153, Ap
405	34	2.5	2800	3	US-08-872-855-1	Sequence 1, Appli	478	33.4	2.4	567	4	US-09-252-991A-12435	Sequence 12435, A
406	34	2.5	2862	4	US-09-252-991A-443	Sequence 443, App	479	33.4	2.4	601	4	US-09-949-016-40556	Sequence 40556, A
407	34	2.5	3156	4	US-09-252-991A-418	Sequence 418, App	480	33.4	2.4	601	4	US-09-949-016-40557	Sequence 40557, A
408	34	2.5	3352	4	US-09-423-753-4	Sequence 4, Appli	481	33.4	2.4	601	4	US-09-949-016-194473	Sequence 194473, A
409	34	2.5	3352	4	US-10-101-464A-868	Sequence 868, App	482	33.4	2.4	601	4	US-09-949-016-194474	Sequence 194474, A
410	34	2.5	3978	4	US-09-266-965-19	Sequence 19, Appl	483	33.4	2.4	840	4	US-09-902-540-8736	Sequence 8736, Ap
411	34	2.5	4019	4	US-09-902-540-535	Sequence 535, App	484	33.4	2.4	852	4	US-09-893-737-151	Sequence 151, App
412	34	2.5	12249	4	US-09-266-965-74	Sequence 74, Appl	485	33.4	2.4	852	4	US-09-893-737-297	Sequence 297, App
413	34	2.5	17593	4	US-09-949-016-12145	Sequence 12145, A	486	33.4	2.4	936	4	US-09-902-540-3745	Sequence 3745, Ap
414	34	2.5	17654	4	US-09-949-016-15734	Sequence 15734, A	487	33.4	2.4	948	4	US-09-902-540-7072	Sequence 7072, Ap
415	34	2.5	18331	4	US-09-266-965-96	Sequence 96, Appl	488	33.4	2.4	975	4	US-09-252-991A-1605	Sequence 1605, Ap
416	34	2.5	37710	4	US-09-949-016-15761	Sequence 15761, A	489	33.4	2.4	987	4	US-09-498-520A-19	Sequence 19, Appl
417	34	2.5	37712	4	US-09-949-016-12692	Sequence 12692, A	490	33.4	2.4	1056	4	US-09-252-991A-1419	Sequence 1419, Ap
418	33.8	2.5	378	4	US-09-640-211A-1421	Sequence 1421, Ap	491	33.4	2.4	1116	4	US-09-252-991A-1313	Sequence 1313, Ap
419	33.8	2.5	951	4	US-09-902-540-5206	Sequence 5206, Ap	492	33.4	2.4	1263	4	US-09-724-797-94	Sequence 94, Appl
420	33.8	2.5	1113	4	US-09-902-540-5622	Sequence 5622, Ap	493	33.4	2.4	1329	4	US-09-252-991A-6983	Sequence 6983, Ap
421	33.8	2.5	1137	4	US-09-724-797-39	Sequence 39, Appl	494	33.4	2.4	1488	4	US-09-252-991A-14879	Sequence 14879, A
422	33.8	2.5	1172	4	US-09-311-021-149	Sequence 149, App	495	33.4	2.4	1551	4	US-09-252-991A-15136	Sequence 15136, A
423	33.8	2.5	1332	4	US-09-902-540-9662	Sequence 9662, Ap	496	33.4	2.4	1593	4	US-09-252-991A-1519	Sequence 1519, Ap
424	33.8	2.5	2007	4	US-09-902-540-9461	Sequence 9461, Ap	497	33.4	2.4	1659	3	US-09-083-351-3	Sequence 3, Appli
425	33.8	2.5	2730	4	US-09-902-540-5705	Sequence 5705, Ap	498	33.4	2.4	1659	3	US-09-083-353-3	Sequence 3, Appli
426	33.8	2.5	3123	4	US-09-902-540-3802	Sequence 3802, Ap	499	33.4	2.4	1662	4	US-09-612-809B-3	Sequence 3, Appli
427	33.8	2.5	3624	1	US-07-951-715A-6	Sequence 6, Appli	500	33.4	2.4	1761	4	US-09-902-540-3727	Sequence 3727, Ap
428	33.8	2.5	3624	2	US-08-459-448A-6	Sequence 6, Appli	501	33.4	2.4	1969	1	US-07-737-851-3	Sequence 3, Appli
429	33.8	2.5	3624	3	US-08-459-595A-6	Sequence 6, Appli	502	33.4	2.4	1969	1	US-07-894-062-3	Sequence 3, Appli
430	33.8	2.5	3624	3	US-08-459-504B-6	Sequence 6, Appli	503	33.4	2.4	1969	3	US-09-096-562-3	Sequence 3, Appli
431	33.8	2.5	3624	3	US-08-459-444-6	Sequence 6, Appli	504	33.4	2.4	2406	4	US-09-252-991A-1657	Sequence 1657, Ap
432	33.8	2.5	3624	3	US-09-053-549-7	Sequence 7, Appli	505	33.4	2.4	2508	4	US-09-758-282B-242	Sequence 242, App
433	33.8	2.5	3624	3	US-09-547-422-6	Sequence 6, Appli	506	33.4	2.4	2508	4	US-09-779-451-545	Sequence 545, App
434	33.8	2.5	3624	3	US-09-988-462-6	Sequence 6, Appli	507	33.4	2.4	2669	4	US-09-597-304A-242	Sequence 242, App
435	33.8	2.5	3780	4	US-09-902-540-9287	Sequence 9287, Ap	508	33.4	2.4	2742	4	US-09-252-991A-5556	Sequence 5556, Ap
436	33.8	2.5	4494	4	US-09-902-540-7532	Sequence 7532, Ap	509	33.4	2.4	2910	4	US-09-252-991A-7009	Sequence 7009, Ap
437	33.8	2.5	6988	4	US-09-902-540-733	Sequence 733, App	510	33.4	2.4	3186	4	US-09-252-991A-7120	Sequence 7120, Ap
438	33.8	2.5	9567	4	US-09-902-540-1002	Sequence 1002, Ap	511	33.4	2.4	3321	4	US-09-252-991A-5668	Sequence 5668, Ap
439	33.8	2.5	9873	4	US-09-902-540-5992	Sequence 992, App	512	33.4	2.4	3463	3	US-09-083-351-1	Sequence 1, Appli
440	33.8	2.5	11854	4	US-09-902-540-1037	Sequence 1037, Ap	513	33.4	2.4	3463	3	US-09-083-352-1	Sequence 1, Appli
441	33.8	2.5	14555	4	US-09-902-540-1096	Sequence 1096, Ap	514	33.4	2.4	3981	4	US-09-252-991A-1361	Sequence 1361, Ap
442	33.8	2.5	15095	4	US-09-902-540-1077	Sequence 1077, Ap	515	33.4	2.4	4168	4	US-09-266-225D-17	Sequence 17, Appl
443	33.8	2.5	15923	4	US-09-902-540-1095	Sequence 1095, Ap	516	33.4	2.4	4179	4	US-09-252-991A-1244	Sequence 1244, Ap
444	33.8	2.5	46902	4	US-09-949-016-13844	Sequence 13844, A	517	33.4	2.4	4279	3	US-09-041-886-22	Sequence 22, Appl
445	33.8	2.5	50725	4	US-09-902-540-1271	Sequence 1271, Ap	518	33.4	2.4	4771	3	US-08-840-062-3	Sequence 3, Appli
446	33.8	2.5	119981	4	US-09-949-016-11844	Sequence 11844, A	519	33.4	2.4	6037	4	US-09-902-540-631	Sequence 631, App
447	33.8	2.5	119982	4	US-09-949-016-13606	Sequence 13606, A	520	33.4	2.4	8532	4	US-09-902-540-927	Sequence 927, App
448	33.8	2.5	136917	4	US-09-949-016-16366	Sequence 16366, A	521	33.4	2.4	9997	1	US-08-246-982A-15	Sequence 15, Appl
449	33.6	2.5	214	4	US-09-023-655-1231	Sequence 1231, Ap	522	33.4	2.4	9997	1	US-08-453-265-15	Sequence 15, Appl
450	33.6	2.5	477	4	US-09-621-976-1779	Sequence 1779, Ap	523	33.4	2.4	17897	4	US-09-902-540-1182	Sequence 1182, Ap
451	33.6	2.5	663	4	US-09-252-991A-5078	Sequence 5078, Ap	524	33.4	2.4	19112	4	US-09-902-540-1181	Sequence 1181, Ap
452	33.6	2.5	762	4	US-09-902-540-4596	Sequence 4596, Ap	525	33.4	2.4	24459	4	US-09-902-540-5004	Sequence 5004, Ap
453	33.6	2.5	792	4	US-09-724-797-11	Sequence 11, Appl	526	33.4	2.4	32241	4	US-09-902-540-1247	Sequence 1247, Ap
454	33.6	2.5	804	4	US-09-252-991A-5139	Sequence 5139, Ap	527	33.4	2.4	36800	4	US-08-311-731A-139	Sequence 139, App
455	33.6	2.5	894	4	US-09-252-991A-11338	Sequence 11338, A	528	33.4	2.4	49559	4	US-09-949-016-12892	Sequence 12892, A
456	33.6	2.5	909	4	US-09-252-991A-11955	Sequence 11955, A	529	33.4	2.4	49559	4	US-09-949-016-17267	Sequence 17267, A
457	33.6	2.5	1023	4	US-09-252-991A-12057	Sequence 12057, A	530	33.4	2.4	74644	4	US-09-949-016-17556	Sequence 17556, A
458	33.6	2.5	1335	4	US-09-252-991A-11357	Sequence 11357, A	531	33.4	2.4	133063	4	US-09-949-016-16293	Sequence 16293, A
459	33.6	2.5	1680	4	US-09-252-991A-11917	Sequence 11917, A	532	33.2	2.4	601	4	US-09-902-540-167451	Sequence 167451, A
460	33.6	2.5	1716	4	US-09-902-540-9034	Sequence 9034, Ap	533	33.2	2.4	990	4	US-09-902-540-7222	Sequence 7222, Ap
461	33.6	2.5	1843	1	US-08-774-169-2	Sequence 2, Appli	534	33.2	2.4	1194	4	US-09-902-540-8211	Sequence 8211, Ap
462	33.6	2.5	1860	4	US-09-252-991A-5014	Sequence 5014, Ap	535	33.2	2.4	1230	4	US-09-902-540-2623	Sequence 2623, Ap
463	33.6	2.5	2253	4	US-09-902-540-3708	Sequence 3708, A	536	33.2	2.4	1368	4	US-09-902-540-9337	Sequence 9337, Ap
464	33.6	2.5	2385	4	US-09-252-991A-11998	Sequence 11998, A	537	33.2	2.4	1455	4	US-09-252-991A-7678	Sequence 7678, Ap
465	33.6	2.5	3238	4	US-09-949-016-740	Sequence 740, App	538	33.2	2.4	1485	4	US-09-252-991A-7528	Sequence 7528, Ap

C 539	33.2	2.4	1621	4	US-09-949-016-516	Sequence 516, App	612	32.8	2.4	561	3	US-09-535-521-16	Sequence 16, Appl
C 540	33.2	2.4	1853	4	US-09-949-016-1012	Sequence 1012, App	C 613	32.8	2.4	561	3	US-09-535-521-18	Sequence 18, Appl
C 541	33.2	2.4	2469	4	US-09-489-039A-1538	Sequence 1538, App	C 614	32.8	2.4	601	4	US-09-949-016-206495	Sequence 206495,
542	33.2	2.4	3231	1	US-08-195-152-1	Sequence 1, Appl	C 615	32.8	2.4	624	3	US-09-535-521-19	Sequence 19, Appl
543	33.2	2.4	3231	1	US-08-195-152-1	Sequence 1, Appl	C 616	32.8	2.4	624	3	US-09-535-521-21	Sequence 21, Appl
544	33.2	2.4	3342	4	US-09-252-991A-7814	Sequence 7814, App	C 617	32.8	2.4	663	4	US-09-902-540-3631	Sequence 3631, App
545	33.2	2.4	3358	4	US-09-248-571-2	Sequence 2, Appl	C 618	32.8	2.4	693	4	US-09-252-991A-7308	Sequence 7308, App
546	33.2	2.4	3358	3	US-09-553-736-2	Sequence 2, Appl	C 619	32.8	2.4	876	3	US-09-535-521-4	Sequence 4, Appl
547	33.2	2.4	4849	4	US-09-620-312D-39	Sequence 39, App	C 620	32.8	2.4	876	3	US-09-535-521-6	Sequence 6, Appl
C 548	33.2	2.4	5418	4	US-09-902-540-675	Sequence 675, App	C 621	32.8	2.4	897	4	US-09-434-354-3	Sequence 3, Appl
549	33.2	2.4	6854	3	US-09-194-905-7	Sequence 7, Appl	C 622	32.8	2.4	897	4	US-09-709-785-3	Sequence 3, Appl
550	33.2	2.4	6854	4	US-09-922-683-7	Sequence 7, Appl	C 623	32.8	2.4	900	4	US-09-252-991A-5764	Sequence 5764, App
551	33.2	2.4	8060	4	US-09-902-540-847	Sequence 847, App	C 624	32.8	2.4	987	4	US-09-252-991A-5398	Sequence 5398, App
C 552	33.2	2.4	10486	4	US-09-902-540-997	Sequence 997, App	C 625	32.8	2.4	1008	4	US-09-252-991A-7103	Sequence 7103, App
553	33.2	2.4	14519	4	US-09-949-016-15611	Sequence 15611, A	C 626	32.8	2.4	1029	4	US-09-902-540-6857	Sequence 6857, App
554	33.2	2.4	14519	4	US-09-949-016-15611	Sequence 15611, A	C 627	32.8	2.4	1041	4	US-09-902-540-4179	Sequence 4179, App
C 555	33.2	2.4	15338	4	US-09-902-540-1121	Sequence 1121, A	C 628	32.8	2.4	1080	4	US-09-831-228-1	Sequence 1, Appl
556	33.2	2.4	17331	4	US-09-949-016-14503	Sequence 14503, A	C 629	32.8	2.4	1143	4	US-09-252-991A-5748	Sequence 5748, App
557	33.2	2.4	21920	4	US-09-949-016-15609	Sequence 15609, A	C 630	32.8	2.4	1164	4	US-09-252-991A-5391	Sequence 5391, App
558	33.2	2.4	24040	4	US-09-949-016-12118	Sequence 12118, A	C 631	32.8	2.4	1194	4	US-09-252-991A-7454	Sequence 7454, App
C 559	33.2	2.4	56448	4	US-09-949-016-16463	Sequence 16463, A	C 632	32.8	2.4	1209	4	US-09-826-509-556	Sequence 556, App
C 560	33	2.4	509	4	US-09-602-565-7	Sequence 7, Appl	C 633	32.8	2.4	1212	4	US-09-620-312D-687	Sequence 687, App
C 561	33	2.4	1076	4	US-09-690-454-17	Sequence 17, Appl	C 634	32.8	2.4	1242	4	US-09-252-991A-9668	Sequence 9668, App
562	33	2.4	1161	4	US-09-902-540-4538	Sequence 4538, App	C 635	32.8	2.4	1263	4	US-09-252-991A-7050	Sequence 7050, App
563	33	2.4	1245	4	US-09-252-991A-11324	Sequence 11324, A	C 636	32.8	2.4	1376	4	US-09-016-434-1361	Sequence 1361, App
564	33	2.4	1278	4	US-09-902-540-7456	Sequence 7456, App	C 637	32.8	2.4	1380	4	US-09-902-540-3259	Sequence 3259, App
C 565	33	2.4	1390	4	US-09-602-565-2	Sequence 2, Appl	C 638	32.8	2.4	1394	2	US-08-068-729-3	Sequence 3, Appl
566	33	2.4	1517	4	US-09-902-540-214	Sequence 214, App	C 639	32.8	2.4	1394	3	US-09-255-671-3	Sequence 3, Appl
567	33	2.4	1673	4	US-09-774-528-115	Sequence 115, App	C 640	32.8	2.4	1394	3	US-09-395-366-3	Sequence 3, Appl
568	33	2.4	1740	4	US-09-252-991A-11286	Sequence 11286, A	C 641	32.8	2.4	1410	4	US-09-252-991A-1239	Sequence 1239, App
569	33	2.4	1774	4	US-09-489-847-17	Sequence 17, Appl	C 642	32.8	2.4	1431	4	US-09-252-991A-1316	Sequence 1316, App
C 570	33	2.4	1896	4	US-09-252-991A-11331	Sequence 11331, A	C 643	32.8	2.4	1434	4	US-09-902-540-8720	Sequence 8720, App
571	33	2.4	2274	4	US-09-949-016-5060	Sequence 5060, App	C 644	32.8	2.4	1464	3	US-09-724-224-7	Sequence 7, Appl
572	33	2.4	2440	3	US-09-513-007-1	Sequence 1, Appl	C 645	32.8	2.4	1464	4	US-10-093-317-7	Sequence 7, Appl
573	33	2.4	4631	4	US-09-902-540-720	Sequence 720, App	C 646	32.8	2.4	1538	3	US-09-724-224-3	Sequence 3, Appl
574	33	2.4	4692	2	US-08-916-917-1	Sequence 1, Appl	C 647	32.8	2.4	1538	4	US-10-093-317-3	Sequence 3, Appl
575	33	2.4	4692	2	US-08-972-631-1	Sequence 1, Appl	C 648	32.8	2.4	1608	4	US-09-252-991A-9091	Sequence 9091, App
576	33	2.4	4692	2	US-08-972-629-1	Sequence 1, Appl	C 649	32.8	2.4	1683	4	US-09-252-991A-5403	Sequence 5403, App
577	33	2.4	4692	2	US-08-972-630-1	Sequence 1, Appl	C 650	32.8	2.4	1710	4	US-09-252-991A-9011	Sequence 9011, App
578	33	2.4	4692	2	US-08-972-211-1	Sequence 1, Appl	C 651	32.8	2.4	1800	4	US-09-252-991A-3891	Sequence 3891, App
579	33	2.4	4692	3	US-09-225-170-1	Sequence 1, Appl	C 652	32.8	2.4	1824	4	US-09-252-991A-4025	Sequence 4025, App
580	33	2.4	5904	1	US-07-745-206A-6	Sequence 6, Appl	C 653	32.8	2.4	1875	4	US-09-252-991A-3919	Sequence 3919, App
581	33	2.4	5904	1	US-08-455-543A-3	Sequence 3, Appl	C 654	32.8	2.4	1904	4	US-09-949-016-1334	Sequence 1334, App
582	33	2.4	5904	2	US-08-193-078B-3	Sequence 3, Appl	C 655	32.8	2.4	1920	4	US-09-252-991A-8999	Sequence 8999, App
583	33	2.4	5904	2	US-08-223-305C-3	Sequence 3, Appl	C 656	32.8	2.4	1965	4	US-09-902-540-7293	Sequence 7293, App
584	33	2.4	5904	2	US-08-149-097D-3	Sequence 3, Appl	C 657	32.8	2.4	2078	2	US-08-785-310A-1	Sequence 1, Appl
585	33	2.4	5904	2	US-08-311-363-6	Sequence 6, Appl	C 658	32.8	2.4	2097	4	US-09-595-684B-34	Sequence 34, Appl
586	33	2.4	6047	4	US-09-902-540-758	Sequence 758, App	C 659	32.8	2.4	2099	4	US-09-949-016-2913	Sequence 2913, App
587	33	2.4	6575	3	US-08-949-386-3	Sequence 3, Appl	C 660	32.8	2.4	2511	4	US-09-252-991A-9494	Sequence 9494, App
588	33	2.4	6575	3	US-08-450-562-3	Sequence 3, Appl	C 661	32.8	2.4	2583	4	US-09-252-991A-9541	Sequence 9541, App
589	33	2.4	6575	3	US-08-984-709A-3	Sequence 3, Appl	C 662	32.8	2.4	2712	4	US-09-252-991A-1366	Sequence 1366, App
590	33	2.4	6575	3	US-08-450-272-3	Sequence 3, Appl	C 663	32.8	2.4	2817	4	US-09-252-991A-7311	Sequence 7311, App
591	33	2.4	6575	4	US-08-450-273-3	Sequence 3, Appl	C 664	32.8	2.4	2851	3	US-09-535-521-1	Sequence 1, Appl
592	33	2.4	11766	4	US-09-949-016-12531	Sequence 12531, A	C 665	32.8	2.4	2851	3	US-09-535-521-3	Sequence 3, Appl
593	33	2.4	11770	4	US-09-949-016-12720	Sequence 12720, A	C 666	32.8	2.4	2862	4	US-09-902-540-7749	Sequence 7749, App
594	33	2.4	11770	4	US-09-949-016-13487	Sequence 13487, A	C 667	32.8	2.4	2880	4	US-09-252-991A-7187	Sequence 7187, App
595	33	2.4	11770	4	US-09-949-016-13488	Sequence 13488, A	C 668	32.8	2.4	3099	4	US-09-902-540-5065	Sequence 5065, App
596	33	2.4	25497	4	US-09-902-540-1244	Sequence 1244, App	C 669	32.8	2.4	3447	4	US-09-949-016-1944	Sequence 1944, App
597	33	2.4	28509	4	US-09-902-540-1240	Sequence 1240, App	C 670	32.8	2.4	3592	2	US-08-469-537A-100	Sequence 100, App
598	33	2.4	34312	4	US-09-949-016-12352	Sequence 12352, A	C 671	32.8	2.4	3957	1	US-07-689-008-5	Sequence 5, App
599	33	2.4	61399	4	US-09-949-016-14386	Sequence 14386, A	C 672	32.8	2.4	4139	4	US-09-620-312D-349	Sequence 349, App
600	33	2.4	92344	4	US-09-949-016-16802	Sequence 16802, A	C 673	32.8	2.4	4148	4	US-09-902-540-578	Sequence 578, App
C 601	32.8	2.4	369	3	US-09-535-521-24	Sequence 24, Appl	C 674	32.8	2.4	4808	4	US-09-902-540-689	Sequence 689, App
C 602	32.8	2.4	369	3	US-09-535-521-26	Sequence 26, Appl	C 675	32.8	2.4	5276	4	US-09-233-857-2	Sequence 2, Appl
C 603	32.8	2.4	384	3	US-09-535-521-7	Sequence 7, Appl	C 676	32.8	2.4	5667	4	US-09-902-540-769	Sequence 769, App
C 604	32.8	2.4	384	3	US-09-535-521-9	Sequence 9, Appl	C 677	32.8	2.4	7295	4	US-09-902-540-944	Sequence 924, App
C 605	32.8	2.4	417	3	US-09-535-521-10	Sequence 10, Appl	C 678	32.8	2.4	9540	1	US-07-689-008-1	Sequence 1, Appl
C 606	32.8	2.4	417	3	US-09-535-521-12	Sequence 12, Appl	C 679	32.8	2.4	10023	4	US-09-252-991A-6997	Sequence 6997, App
C 607	32.8	2.4	423	3	US-09-535-521-13	Sequence 13, Appl	C 680	32.8	2.4	12250	4	US-09-949-016-17580	Sequence 17580, A
C 608	32.8	2.4	423	3	US-09-535-521-15	Sequence 15, Appl	C 681	32.8	2.4	18848	4	US-09-902-540-1174	Sequence 1174, App
C 609	32.8	2.4	430	4	US-09-621-976-16656	Sequence 16656, A	C 682	32.8	2.4	19954	4	US-09-902-540-1150	Sequence 1150, App
C 610	32.8	2.4	491	3	US-09-189-060B-17	Sequence 17, Appl	C 683	32.8	2.4	22301	4	US-09-902-540-1208	Sequence 1208, App
C 611	32.8	2.4	495	4	US-09-252-991A-7246	Sequence 7246, App	C 684	32.8	2.4	28054	4	US-09-902-540-1248	Sequence 1248, App

685	32.8	2.4	28194	4	US-09-902-540-1250	Sequence 1250, Ap	758	32.4	2.4	601	4	US-09-949-016-71273	Sequence 71273, A
686	32.8	2.4	53500	4	US-09-266-965-76	Sequence 1367, Appl	C 759	32.4	2.4	744	3	US-09-385-028-22	Sequence 22, Appl
687	32.8	2.4	10650	4	US-09-949-016-13873	Sequence 1873, A	C 760	32.4	2.4	744	4	US-09-726-614-22	Sequence 22, Appl
688	32.8	2.4	133642	4	US-09-949-016-12174	Sequence 12174, A	C 761	32.4	2.4	744	4	US-09-385-040-22	Sequence 22, Appl
689	32.8	2.4	153643	4	US-09-949-016-15635	Sequence 15635, A	C 762	32.4	2.4	879	4	US-09-902-540-4552	Sequence 4552, Ap
690	32.8	2.4	435	4	US-09-252-991A-9379	Sequence 9379, Ap	C 763	32.4	2.4	888	4	US-09-902-540-6257	Sequence 6257, Ap
691	32.6	2.4	439	4	US-09-621-976-14143	Sequence 14143, A	C 764	32.4	2.4	1020	4	US-08-586-664-2	Sequence 2, Appl
692	32.6	2.4	601	4	US-09-949-016-121668	Sequence 121668, A	C 765	32.4	2.4	1044	4	US-09-902-540-3178	Sequence 3178, Ap
693	32.6	2.4	601	4	US-09-949-016-137725	Sequence 137725, A	C 766	32.4	2.4	1195	3	US-09-072-596-336	Sequence 336, App
694	32.6	2.4	615	4	US-09-489-039A-6321	Sequence 6321, Ap	C 767	32.4	2.4	1195	4	US-09-072-967-341	Sequence 341, App
695	32.6	2.4	657	4	US-09-252-991A-6701	Sequence 6701, Ap	C 768	32.4	2.4	1257	4	US-09-902-540-5554	Sequence 5554, Ap
696	32.6	2.4	671	4	US-09-952-060-9	Sequence 9, Appl	C 769	32.4	2.4	1353	4	US-09-252-991A-11563	Sequence 11563, A
697	32.6	2.4	671	4	US-09-952-060-13	Sequence 13, Appl	C 770	32.4	2.4	1392	4	US-09-902-540-3448	Sequence 3448, Ap
698	32.6	2.4	719	4	US-09-952-060-11	Sequence 11, Appl	C 771	32.4	2.4	1416	4	US-09-252-991A-11499	Sequence 11499, A
699	32.6	2.4	720	4	US-09-952-060-15	Sequence 15, Appl	C 772	32.4	2.4	1425	4	US-09-252-991A-11848	Sequence 11848, A
700	32.6	2.4	860	4	US-09-270-767-11964	Sequence 11964, A	C 773	32.4	2.4	1431	4	US-09-252-991A-11886	Sequence 11886, A
701	32.6	2.4	1083	4	US-09-252-991A-9481	Sequence 9481, Ap	C 774	32.4	2.4	1446	4	US-09-252-991A-11593	Sequence 11593, A
702	32.6	2.4	1092	4	US-09-252-991A-6628	Sequence 6628, Ap	C 775	32.4	2.4	1446	4	US-09-949-016-694	Sequence 694, App
703	32.6	2.4	1095	4	US-09-252-991A-6626	Sequence 6626, Ap	C 776	32.4	2.4	1455	4	US-09-949-016-3899	Sequence 3899, Ap
704	32.6	2.4	1296	4	US-09-252-991A-2364	Sequence 2364, Ap	C 777	32.4	2.4	1461	4	US-09-398-523-113	Sequence 113, App
705	32.6	2.4	1332	1	US-08-660-765A-3	Sequence 3, Appl	C 778	32.4	2.4	1509	4	US-09-252-991A-7072	Sequence 7072, Ap
706	32.6	2.4	1344	4	US-09-252-991A-5239	Sequence 5239, Ap	C 779	32.4	2.4	1515	4	US-09-252-991A-5720	Sequence 5720, Ap
707	32.6	2.4	1521	4	US-09-252-991A-2550	Sequence 2550, Ap	C 780	32.4	2.4	1524	4	US-09-252-991A-7027	Sequence 7027, Ap
708	32.6	2.4	1554	4	US-09-252-991A-9350	Sequence 9350, Ap	C 781	32.4	2.4	1572	4	US-09-252-991A-4553	Sequence 4553, Ap
709	32.6	2.4	1716	4	US-09-270-767-11940	Sequence 11940, A	C 782	32.4	2.4	1686	4	US-09-252-991A-4299	Sequence 4299, Ap
710	32.6	2.4	1734	4	US-09-902-540-3416	Sequence 3416, Ap	C 783	32.4	2.4	1821	4	US-09-252-991A-5692	Sequence 5692, Ap
711	32.6	2.4	1794	4	US-09-252-991A-5181	Sequence 5181, Ap	C 784	32.4	2.4	1821	4	US-09-902-540-7500	Sequence 7500, Ap
712	32.6	2.4	1821	4	US-09-266-965-82	Sequence 82, Appl	C 785	32.4	2.4	1842	4	US-09-902-540-346	Sequence 346, App
713	32.6	2.4	1854	4	US-09-902-540-7083	Sequence 7083, Ap	C 786	32.4	2.4	2118	4	US-09-252-991A-11782	Sequence 11782, A
714	32.6	2.4	2082	4	US-09-818-780-67	Sequence 67, Appl	C 787	32.4	2.4	2298	4	US-09-902-540-2433	Sequence 2433, Ap
715	32.6	2.4	2296	4	US-09-949-016-3829	Sequence 3829, Ap	C 788	32.4	2.4	2380	4	US-09-747-253-13	Sequence 13, Appl
716	32.6	2.4	2523	4	US-09-902-540-6428	Sequence 6428, Ap	C 789	32.4	2.4	2469	4	US-09-252-991A-5349	Sequence 5349, Ap
717	32.6	2.4	2525	4	US-09-902-540-441	Sequence 441, App	C 790	32.4	2.4	2595	4	US-09-810-268-2	Sequence 2, Appl
718	32.6	2.4	2547	4	US-09-252-991A-5294	Sequence 5294, Ap	C 791	32.4	2.4	2610	4	US-09-252-991A-5719	Sequence 5719, Ap
719	32.6	2.4	2673	4	US-09-902-540-4830	Sequence 4830, Ap	C 792	32.4	2.4	2808	3	US-08-870-126-7	Sequence 7, Appl
720	32.6	2.4	2775	4	US-09-252-991A-6637	Sequence 6637, Ap	C 793	32.4	2.4	3007	4	US-09-445-247-7	Sequence 7, Appl
721	32.6	2.4	2903	4	US-09-799-451-871	Sequence 871, App	C 794	32.4	2.4	3163	4	US-09-810-268-1	Sequence 1, Appl
722	32.6	2.4	3084	4	US-09-252-991A-6639	Sequence 6639, Ap	C 795	32.4	2.4	3435	4	US-09-344-510B-6	Sequence 6, Appl
723	32.6	2.4	3135	4	US-09-252-991A-2282	Sequence 2282, Ap	C 796	32.4	2.4	3463	4	US-09-344-510B-7	Sequence 7, Appl
724	32.6	2.4	3186	1	US-08-761-258-8	Sequence 8, Appl	C 797	32.4	2.4	5040	4	US-09-902-540-727	Sequence 727, App
725	32.6	2.4	3186	2	US-09-977-306-8	Sequence 8, Appl	C 798	32.4	2.4	5103	4	US-09-252-991A-5192	Sequence 5192, Ap
726	32.6	2.4	3273	4	US-09-252-991A-6578	Sequence 6578, Ap	C 799	32.4	2.4	6855	4	US-09-252-991A-6976	Sequence 6976, Ap
727	32.6	2.4	3388	4	US-09-620-312D-369	Sequence 369, App	C 800	32.4	2.4	6876	4	US-09-252-991A-5283	Sequence 5283, Ap
728	32.6	2.4	3603	4	US-09-902-540-3266	Sequence 3266, Ap	C 801	32.4	2.4	11604	3	US-09-385-028-13	Sequence 13, Appl
729	32.6	2.4	3810	4	US-09-252-991A-6579	Sequence 6579, Ap	C 802	32.4	2.4	11604	4	US-09-385-040-13	Sequence 13, Appl
730	32.6	2.4	4231	4	US-09-902-540-533	Sequence 533, App	C 803	32.4	2.4	11604	4	US-09-385-040-13	Sequence 1145, Ap
731	32.6	2.4	4286	4	US-08-793-273C-1	Sequence 1, Appl	C 804	32.4	2.4	14382	4	US-09-902-540-1145	Sequence 1107, Ap
732	32.6	2.4	4286	5	PCT-US95-11684-1	Sequence 1, Appl	C 805	32.4	2.4	14899	3	US-09-902-540-1107	Sequence 1, Appl
733	32.6	2.4	7286	4	US-09-266-965-75	Sequence 75, Appl	C 806	32.4	2.4	15079	4	US-09-385-028-1	Sequence 1, Appl
734	32.6	2.4	18034	4	US-09-902-540-1150	Sequence 1150, Ap	C 807	32.4	2.4	15079	4	US-09-726-614-1	Sequence 1, Appl
735	32.6	2.4	19954	4	US-09-902-540-1237	Sequence 1237, Ap	C 808	32.4	2.4	15120	4	US-09-385-040-1	Sequence 1, Appl
736	32.6	2.4	26659	4	US-09-949-016-12926	Sequence 12926, A	C 809	32.4	2.4	15572	4	US-09-424-783-1	Sequence 1, Appl
737	32.6	2.4	26967	4	US-09-949-016-12926	Sequence 12926, A	C 810	32.4	2.4	15742	4	US-09-949-016-13762	Sequence 13762, A
738	32.6	2.4	31111	4	US-09-949-016-15628	Sequence 15628, A	C 811	32.4	2.4	19726	4	US-09-902-540-1154	Sequence 1154, Ap
739	32.6	2.4	49377	1	US-08-764-233A-1	Sequence 1, Appl	C 812	32.4	2.4	25497	4	US-09-902-540-1254	Sequence 1199, Ap
740	32.6	2.4	97221	4	US-09-949-016-12755	Sequence 12755, A	C 813	32.4	2.4	26533	4	US-09-902-540-1199	Sequence 1, Appl
741	32.6	2.4	152393	4	US-09-949-016-14514	Sequence 14514, A	C 814	32.4	2.4	30001	2	US-08-125-468-1	Sequence 1, Appl
742	32.6	2.4	152393	4	US-09-949-016-14514	Sequence 14514, A	C 815	32.4	2.4	30001	2	US-08-474-933-1	Sequence 1, Appl
743	32.6	2.4	156894	4	US-09-949-016-12765	Sequence 12765, A	C 816	32.4	2.4	41170	4	US-09-902-540-1267	Sequence 1267, Ap
744	32.6	2.4	156894	4	US-09-949-016-12766	Sequence 12766, A	C 817	32.4	2.4	41170	4	US-09-902-540-1267	Sequence 1267, Ap
745	32.6	2.4	156895	4	US-09-949-016-16957	Sequence 16957, A	C 818	32.2	2.4	85854	4	US-09-252-991A-13699	Sequence 13699, A
746	32.6	2.4	156895	4	US-09-949-016-16958	Sequence 16958, A	C 819	32.2	2.4	333	4	US-09-252-991A-6383	Sequence 6383, Ap
747	32.6	2.4	156895	4	US-09-949-016-16959	Sequence 16959, A	C 820	32.2	2.4	441	4	US-09-370-838-229	Sequence 229, App
748	32.4	2.4	415	4	US-09-621-976-17487	Sequence 17487, A	C 821	32.2	2.4	465	4	US-09-854-133-229	Sequence 229, App
749	32.4	2.4	432	4	US-09-252-991A-1007	Sequence 1007, Ap	C 822	32.2	2.4	484	4	US-09-621-976-35	Sequence 35, Appl
750	32.4	2.4	432	4	US-09-252-991A-11821	Sequence 11821, A	C 823	32.2	2.4	570	4	US-09-016-434-789	Sequence 789, App
751	32.4	2.4	468	4	US-09-252-991A-5734	Sequence 5734, Ap	C 824	32.2	2.4	594	4	US-09-902-540-8315	Sequence 8315, Ap
752	32.4	2.4	513	4	US-09-621-976-1776	Sequence 1776, Ap	C 825	32.2	2.4	594	4	US-09-949-016-69202	Sequence 69202, A
753	32.4	2.4	591	4	US-09-252-991A-1085	Sequence 1085, Ap	C 826	32.2	2.4	601	4	US-09-949-016-167452	Sequence 167452, A
754	32.4	2.4	601	4	US-09-949-016-38672	Sequence 38672, A	C 827	32.2	2.4	601	4	US-09-252-991A-6165	Sequence 6165, Ap
755	32.4	2.4	601	4	US-09-949-016-38673	Sequence 38673, A	C 828	32.2	2.4	669	4	US-09-902-540-7278	Sequence 7278, Ap
756	32.4	2.4	601	4	US-09-949-016-68668	Sequence 68668, A	C 829	32.2	2.4	858	4	US-08-998-416-516	Sequence 516, App
757	32.4	2.4	601	4	US-09-949-016-68669	Sequence 68669, A	C 830	32.2	2.4	957	4	US-09-252-991A-9229	Sequence 9229, Ap



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832	32.2	2.4	1017	3	US-09-414-453A-2	Sequence 2, Appli	905	32	2.3	1049	3	US-09-452-239-43	Sequence 43, Appl
833	32.2	2.4	1023	3	US-09-902-540-4565	Sequence 4565, Ap	C 906	32	2.3	1104	4	US-09-252-991A-11488	Sequence 11488, A
834	32.2	2.4	1143	2	US-08-387-942C-19	Sequence 19, Appl	907	32	2.3	1119	4	US-09-489-035A-5345	Sequence 5345, Ap
835	32.2	2.4	1176	4	US-09-302-540-3067	Sequence 3067, Ap	908	32	2.3	1161	4	US-09-275-252A-17	Sequence 17, Appl
836	32.2	2.4	1182	4	US-09-252-991A-9062	Sequence 9062, Ap	C 909	32	2.3	1182	4	US-09-252-991A-3791	Sequence 3791, Ap
837	32.2	2.4	1209	4	US-09-252-991A-8718	Sequence 8718, Ap	C 910	32	2.3	1245	4	US-09-252-991A-11404	Sequence 11404, A
838	32.2	2.4	1317	4	US-09-302-540-5750	Sequence 5750, Ap	C 911	32	2.3	1479	4	US-09-252-991A-3832	Sequence 3832, Ap
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840	32.2	2.4	1479	4	US-09-252-991A-10839	Sequence 10839, A	913	32	2.3	1524	4	US-09-949-016-5791	Sequence 5791, Ap
841	32.2	2.4	1650	4	US-09-302-540-4953	Sequence 4953, Ap	914	32	2.3	1566	4	US-09-252-991A-3194	Sequence 3194, Ap
842	32.2	2.4	1659	4	US-09-252-991A-6465	Sequence 6465, Ap	C 915	32	2.3	1582	4	US-09-424-978B-35	Sequence 35, Appl
C 843	32.2	2.4	1668	4	US-09-252-991A-10888	Sequence 10888, A	916	32	2.3	1599	4	US-09-252-991A-2670	Sequence 2670, Ap
844	32.2	2.4	1794	4	US-09-252-991A-7681	Sequence 7681, Ap	C 917	32	2.3	1602	4	US-09-902-540-7421	Sequence 7421, Ap
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846	32.2	2.4	2047	3	US-09-345-468-1	Sequence 1, Appli	919	32	2.3	1707	4	US-09-902-540-2606	Sequence 2606, Ap
847	32.2	2.4	2047	3	US-09-414-453A-1	Sequence 1, Appli	920	32	2.3	1740	4	US-09-252-991A-15553	Sequence 15553, A
848	32.2	2.4	2167	4	US-09-949-016-4434	Sequence 4434, Ap	921	32	2.3	1784	4	US-09-073-009-102	Sequence 102, App
849	32.2	2.4	2176	4	US-09-949-016-166	Sequence 166, App	922	32	2.3	1784	4	US-09-073-010-102	Sequence 102, App
850	32.2	2.4	2237	4	US-09-302-540-7406	Sequence 7406, Ap	923	32	2.3	1809	4	US-09-902-540-7762	Sequence 7762, Ap
851	32.2	2.4	2244	1	US-08-476-519-10	Sequence 10, Appl	C 924	32	2.3	1833	4	US-09-902-540-4884	Sequence 4884, Ap
852	32.2	2.4	2244	5	PCT-US95-09323-10	Sequence 10, Appl	925	32	2.3	2156	4	US-09-086-663A-78	Sequence 78, Appl
853	32.2	2.4	2334	1	US-08-476-519-1	Sequence 1, Appli	C 926	32	2.3	2598	4	US-09-252-991A-2768	Sequence 2768, Ap
854	32.2	2.4	2334	5	PCT-US95-09323-1	Sequence 1, Appli	927	32	2.3	2718	4	US-09-902-540-2891	Sequence 2891, Ap
C 855	32.2	2.4	2479	4	US-09-270-767-12486	Sequence 12486, A	928	32	2.3	2742	4	US-09-252-991A-3678	Sequence 3678, Ap
856	32.2	2.4	2482	4	US-09-620-312D-549	Sequence 549, App	929	32	2.3	3109	4	US-09-902-540-413	Sequence 413, App
857	32.2	2.4	2701	4	US-09-949-016-5547	Sequence 5547, Ap	930	32	2.3	3249	3	US-09-343-494-2	Sequence 2, Appli
C 858	32.2	2.4	3282	4	US-09-489-847-52	Sequence 52, Appl	931	32	2.3	3249	4	US-10-160-224-2	Sequence 1, Appli
859	32.2	2.4	3348	4	US-09-312-762A-2	Sequence 2, Appli	932	32	2.3	3323	3	US-09-600-776-1	Sequence 1, Appli
860	32.2	2.4	3486	4	US-09-252-991A-6301	Sequence 6301, Ap	933	32	2.3	3323	4	US-09-965-830-1	Sequence 1, Appli
861	32.2	2.4	3638	4	US-09-302-540-686	Sequence 686, App	934	32	2.3	3711	3	US-09-336-643A-19	Sequence 19, Appl
862	32.2	2.4	5872	4	US-09-302-540-859	Sequence 859, App	935	32	2.3	3857	3	US-09-902-540-7049	Sequence 7049, Ap
C 863	32.2	2.4	6854	3	US-09-194-905-7	Sequence 7, Appli	936	32	2.3	4050	3	US-09-543-084A-26	Sequence 26, Appl
C 864	32.2	2.4	6854	4	US-09-322-683-7	Sequence 7, Appli	937	32	2.3	4093	3	US-09-543-084A-28	Sequence 28, Appl
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C 866	32.2	2.4	8048	4	US-09-302-540-867	Sequence 867, App	939	32	2.3	4761	4	US-09-902-540-7739	Sequence 739, App
C 867	32.2	2.4	10871	4	US-09-302-540-1025	Sequence 1025, Ap	940	32	2.3	5275	4	US-09-902-540-771	Sequence 771, App
C 868	32.2	2.4	14462	4	US-09-302-540-1090	Sequence 1090, Ap	941	32	2.3	5482	4	US-09-902-540-723	Sequence 723, App
C 869	32.2	2.4	14462	4	US-09-302-540-9597	Sequence 9597, Ap	942	32	2.3	6083	4	US-09-902-540-763	Sequence 763, App
870	32.2	2.4	17198	4	US-09-949-016-13776	Sequence 13776, A	943	32	2.3	6677	3	US-08-939-366-27	Sequence 27, Appl
871	32.2	2.4	20235	1	US-07-642-734C-3	Sequence 3, Appli	944	32	2.3	6677	3	US-09-467-997-6	Sequence 6, Appli
872	32.2	2.4	20235	3	US-08-439-009A-3	Sequence 3, Appli	C 945	32	2.3	7317	4	US-09-902-540-715	Sequence 715, App
C 873	32.2	2.4	21855	4	US-09-949-016-14953	Sequence 14953, A	C 946	32	2.3	9338	4	US-09-949-016-13864	Sequence 13864, A
C 874	32.2	2.4	21855	4	US-09-302-540-1244	Sequence 1225, Ap	947	32	2.3	12449	4	US-09-949-016-15755	Sequence 15755, A
875	32.2	2.4	27219	4	US-08-592-874-1	Sequence 1244, Ap	C 948	32	2.3	13624	4	US-09-902-540-1053	Sequence 1053, Ap
C 876	32.2	2.4	28804	2	US-09-096-942-2	Sequence 1, Appli	949	32	2.3	16423	4	US-09-902-540-1120	Sequence 1120, Ap
C 877	32.2	2.4	28804	3	US-09-096-942-2	Sequence 2, Appli	C 950	32	2.3	23233	4	US-09-902-540-1184	Sequence 1184, Ap
C 878	32.2	2.4	28804	3	US-09-096-867-2	Sequence 2, Appli	C 951	32	2.3	26930	4	US-09-902-540-1228	Sequence 1228, Ap
C 879	32.2	2.4	39032	4	US-09-949-016-12874	Sequence 12874, A	C 952	32	2.3	43992	4	US-09-949-016-12172	Sequence 12172, A
C 880	32.2	2.4	39032	4	US-09-949-016-16462	Sequence 16462, A	C 953	32	2.3	43993	4	US-09-949-016-13406	Sequence 13406, A
881	32.2	2.4	41433	4	US-09-949-016-11908	Sequence 11908, A	C 954	32	2.3	44430	4	US-09-949-016-12468	Sequence 12468, A
882	32.2	2.4	41433	4	US-09-949-016-16176	Sequence 16176, A	C 955	32	2.3	44431	4	US-09-949-016-15882	Sequence 15882, A
C 883	32.2	2.4	49401	4	US-09-949-016-17080	Sequence 17080, A	956	32	2.3	46253	4	US-09-949-016-11890	Sequence 11890, A
C 884	32.2	2.4	54484	4	US-09-302-540-1272	Sequence 1272, Ap	957	32	2.3	46257	4	US-09-949-016-13711	Sequence 13711, A
C 885	32.2	2.4	77772	4	US-09-949-016-17417	Sequence 17417, A	C 958	32	2.3	86639	4	US-09-949-016-17397	Sequence 17397, A
C 886	32.2	2.4	77997	4	US-09-949-016-12349	Sequence 12249, A	959	32	2.3	128723	4	US-09-949-016-17533	Sequence 17533, A
887	32.2	2.4	251769	4	US-08-949-016-13185	Sequence 13185, A	960	32	2.3	203475	4	US-09-949-016-14516	Sequence 14516, A
888	32.2	2.4	251769	4	US-09-949-016-13186	Sequence 13186, A	961	32	2.3	203475	4	US-09-949-016-14517	Sequence 14517, A
889	32.2	2.4	266748	4	US-09-949-016-13187	Sequence 13187, A	962	32	2.3	203475	4	US-09-949-016-14518	Sequence 14518, A
890	32.2	2.4	266748	4	US-09-949-016-13188	Sequence 13188, A	963	32	2.3	203475	4	US-09-949-016-14519	Sequence 14519, A
891	32	2.3	408	4	US-09-302-540-6365	Sequence 6365, Ap	964	32	2.3	203475	4	US-09-949-016-17226	Sequence 17226, A
892	32	2.3	462	4	US-09-302-540-7584	Sequence 7584, Ap	965	32	2.3	203475	4	US-09-949-016-17227	Sequence 17227, A
893	32	2.3	483	4	US-09-302-540-1856	Sequence 1856, Ap	966	32	2.3	203475	4	US-09-949-016-17228	Sequence 17228, A
894	32	2.3	510	4	US-09-252-991A-15448	Sequence 15448, A	967	32	2.3	203475	4	US-09-949-016-17229	Sequence 17229, A
C 895	32	2.3	601	4	US-09-949-016-178696	Sequence 178696, A	968	31.8	2.3	356	3	US-08-483-533-19	Sequence 19, Appl
896	32	2.3	601	4	US-09-949-016-201547	Sequence 201547, A	969	31.8	2.3	356	3	US-09-283-471A-19	Sequence 19, Appl
897	32	2.3	630	4	US-09-302-540-3724	Sequence 3724, Ap	970	31.8	2.3	399	4	US-09-252-991A-2748	Sequence 2748, Ap
898	32	2.3	642	4	US-09-302-540-7454	Sequence 7454, Ap	C 971	31.8	2.3	426	4	US-09-902-540-6553	Sequence 6553, Ap
899	32	2.3	644	4	US-09-302-540-7566	Sequence 7566, Ap	972	31.8	2.3	447	4	US-09-248-796A-13552	Sequence 13552, A
900	32	2.3	953	3	US-09-452-239-45	Sequence 45, Appl	973	31.8	2.3	601	4	US-09-949-016-17344	Sequence 17344, A
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903	32	2.3	1032	3	US-09-138-873A-4	Sequence 4, Appli	976	31.8	2.3	601	4	US-09-949-016-204004	Sequence 204004, A

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c 978	31.8	2.3	633	3	US-09-006-783A-6	Sequence 6, Appli	1051	31.8	2.3	3876	4	US-09-252-991A-2933	Sequence 2933, Ap
c 979	31.8	2.3	714	3	US-09-156-836B-7	Sequence 7, Appli	c1052	31.8	2.3	4199	4	US-09-902-540-525	Sequence 525, Ap
c 980	31.8	2.3	732	3	US-08-997-897-7	Sequence 7, Appli	1053	31.8	2.3	4213	4	US-09-711-619-8	Sequence 8, Appli
c 981	31.8	2.3	738	4	US-09-252-991A-2934	Sequence 2934, Ap	c1054	31.8	2.3	4549	4	US-09-620-312D-266	Sequence 266, App
c 982	31.8	2.3	738	4	US-09-252-991A-9456	Sequence 9456, Ap	c1055	31.8	2.3	4608	4	US-09-949-016-5404	Sequence 5404, Ap
c 983	31.8	2.3	789	4	US-09-252-991A-16179	Sequence 16179, A	c1056	31.8	2.3	4617	4	US-09-949-016-1005	Sequence 1005, Ap
c 984	31.8	2.3	804	4	US-09-489-039A-5718	Sequence 5718, A	c1057	31.8	2.3	4942	4	US-09-620-312D-267	Sequence 267, App
c 985	31.8	2.3	816	4	US-09-252-991A-9480	Sequence 9480, Ap	1058	31.8	2.3	5058	3	US-09-889-595-1	Sequence 1, Appli
c 986	31.8	2.3	819	4	US-09-252-991A-2845	Sequence 2845, Ap	1059	31.8	2.3	5058	4	US-09-889-595-1	Sequence 1, Appli
c 987	31.8	2.3	834	4	US-09-621-976-2574	Sequence 2574, Ap	1060	31.8	2.3	6827	4	US-09-711-619-7	Sequence 7, Appli
c 988	31.8	2.3	867	4	US-09-902-540-3225	Sequence 3225, Ap	c1061	31.8	2.3	8060	4	US-09-902-540-847	Sequence 847, App
c 989	31.8	2.3	873	3	US-09-006-783A-4	Sequence 4, Appli	c1062	31.8	2.3	8779	2	US-08-750-703-4	Sequence 4, Appli
c 990	31.8	2.3	880	4	US-09-889-595-3	Sequence 3, Appli	c1063	31.8	2.3	9311	4	US-09-949-016-14994	Sequence 14994, A
c 991	31.8	2.3	880	4	US-09-889-595-3	Sequence 3, Appli	1064	31.8	2.3	10103	2	US-08-457-273B-7	Sequence 7, Appli
c 992	31.8	2.3	924	4	US-09-252-991A-1483	Sequence 1483, A	c1065	31.8	2.3	10178	4	US-09-902-540-977	Sequence 977, App
c 993	31.8	2.3	930	4	US-09-252-991A-15663	Sequence 15663, A	c1066	31.8	2.3	11145	4	US-09-949-016-12471	Sequence 12471, A
c 994	31.8	2.3	975	4	US-09-902-540-3140	Sequence 3140, Ap	c1067	31.8	2.3	11454	4	US-09-949-016-12471	Sequence 12471, A
c 995	31.8	2.3	1020	4	US-09-902-540-5913	Sequence 5913, Ap	1068	31.8	2.3	11454	4	US-09-949-016-12471	Sequence 12471, A
c 996	31.8	2.3	1062	4	US-09-016-434-1286	Sequence 1286, Ap	1069	31.8	2.3	13953	4	US-09-902-540-1187	Sequence 1187, Ap
c 997	31.8	2.3	1062	4	US-08-134-231C-33	Sequence 33, Appl	c1070	31.8	2.3	13953	4	US-09-949-016-13709	Sequence 13709, A
c 998	31.8	2.3	1062	4	US-09-023-655-1327	Sequence 1327, Ap	c1071	31.8	2.3	17726	4	US-09-741-154-3	Sequence 3, Appli
c 999	31.8	2.3	1062	4	US-08-728-160-33	Sequence 33, Appl	1072	31.8	2.3	18551	4	US-09-738-884-3	Sequence 3, Appli
c1000	31.8	2.3	1074	4	US-09-902-540-174	Sequence 174, App	1073	31.8	2.3	23496	4	US-09-902-540-5645	Sequence 5645, Ap
c1001	31.8	2.3	1080	4	US-09-902-540-6679	Sequence 6679, Ap	1074	31.8	2.3	35060	3	US-08-814-095-7	Sequence 7, Appli
c1002	31.8	2.3	1225	4	US-09-451-739H-2	Sequence 2, Appli	c1075	31.8	2.3	36851	4	US-09-949-016-14674	Sequence 14674, A
c1003	31.8	2.3	1225	4	US-09-902-540-3454	Sequence 3454, Ap	c1076	31.8	2.3	38808	4	US-09-949-016-11802	Sequence 11802, A
c1004	31.8	2.3	1257	4	US-09-252-991A-892	Sequence 892, App	c1077	31.8	2.3	38808	4	US-09-949-016-16735	Sequence 16735, A
c1005	31.8	2.3	1291	3	US-08-997-897-1	Sequence 1, Appli	c1078	31.8	2.3	51354	4	US-09-902-540-1270	Sequence 1270, Ap
c1006	31.8	2.3	1291	3	US-09-156-836B-1	Sequence 1, Appli	c1079	31.8	2.3	55328	4	US-09-949-016-12747	Sequence 12747, A
c1007	31.8	2.3	1300	3	US-08-483-533-39	Sequence 39, Appl	c1080	31.8	2.3	55330	4	US-09-949-016-17146	Sequence 17146, A
c1008	31.8	2.3	1300	3	US-09-283-471A-39	Sequence 39, Appl	c1081	31.8	2.3	92227	4	US-09-949-016-11929	Sequence 11929, A
c1009	31.8	2.3	1329	4	US-09-489-039A-3268	Sequence 3268, Ap	c1082	31.8	2.3	92232	4	US-09-949-016-15421	Sequence 15421, A
c1010	31.8	2.3	1329	4	US-09-489-039A-4599	Sequence 4599, Ap	1083	31.8	2.3	117838	4	US-09-949-016-17595	Sequence 17595, A
c1011	31.8	2.3	1553	4	US-09-865-879-2	Sequence 2, Appli	1084	31.8	2.3	125188	4	US-09-949-016-11980	Sequence 11980, A
c1012	31.8	2.3	1737	2	US-08-750-703-2	Sequence 2, Appli	c1085	31.8	2.3	154746	4	US-09-827-688-8	Sequence 8, Appli
c1013	31.8	2.3	1785	2	US-08-910-856-1	Sequence 1, Appli	1086	31.8	2.3	164358	4	US-09-949-016-15725	Sequence 15725, A
c1014	31.8	2.3	1818	4	US-09-252-991A-16303	Sequence 16303, A	c1087	31.8	2.3	276237	4	US-09-949-016-17504	Sequence 17504, A
c1015	31.8	2.3	1830	4	US-09-252-991A-15976	Sequence 15976, A	1088	31.6	2.3	282	2	US-08-716-942-13	Sequence 13, Appl
c1016	31.8	2.3	1833	4	US-09-252-991A-3023	Sequence 3023, Ap	1089	31.6	2.3	282	3	US-09-130-337A-13	Sequence 13, Appl
c1017	31.8	2.3	1902	2	US-09-258-371-1	Sequence 1, Appli	c1090	31.6	2.3	284	4	US-09-313-294A-6471	Sequence 6471, Ap
c1018	31.8	2.3	1902	2	US-09-258-371-1	Sequence 1, Appli	c1091	31.6	2.3	310	4	US-09-513-999C-9835	Sequence 9835, Ap
c1019	31.8	2.3	1902	3	US-08-569-721A-1	Sequence 1, Appli	c1092	31.6	2.3	383	4	US-09-621-976-96	Sequence 96, Appl
c1020	31.8	2.3	1902	3	US-08-751-230-1	Sequence 1, Appli	1093	31.6	2.3	393	4	US-09-902-540-5713	Sequence 5713, Ap
c1021	31.8	2.3	1902	3	US-09-499-082-1	Sequence 1, Appli	1094	31.6	2.3	444	4	US-09-902-540-6561	Sequence 6561, Ap
c1022	31.8	2.3	1902	3	US-09-258-372-1	Sequence 1, Appli	1095	31.6	2.3	453	4	US-09-902-540-5781	Sequence 5781, Ap
c1023	31.8	2.3	1902	3	US-09-532-868-1	Sequence 1, Appli	c1096	31.6	2.3	601	4	US-09-949-016-162887	Sequence 162887, A
c1024	31.8	2.3	2061	2	US-09-258-371-9	Sequence 9, Appli	1097	31.6	2.3	642	3	US-09-588-256-5	Sequence 5, Appli
c1025	31.8	2.3	2061	3	US-08-751-230-9	Sequence 9, Appli	1098	31.6	2.3	648	4	US-09-902-540-3939	Sequence 3939, Ap
c1026	31.8	2.3	2061	3	US-09-499-082-9	Sequence 9, Appli	c1099	31.6	2.3	672	4	US-09-902-540-7999	Sequence 7999, Ap
c1027	31.8	2.3	2061	3	US-09-258-372-9	Sequence 9, Appli	1100	31.6	2.3	740	4	US-09-270-767-27636	Sequence 27636, A
c1028	31.8	2.3	2061	3	US-09-006-783A-2	Sequence 2, Appli	1101	31.6	2.3	810	4	US-09-252-991A-4848	Sequence 4848, Ap
c1029	31.8	2.3	2061	3	US-09-159-871-1	Sequence 1, Appli	1102	31.6	2.3	837	4	US-09-252-991A-10203	Sequence 10203, A
c1030	31.8	2.3	2061	4	US-09-532-868-9	Sequence 9, Appli	1103	31.6	2.3	894	1	US-08-178-708-7	Sequence 7, Appli
c1031	31.8	2.3	2340	4	US-09-902-540-8210	Sequence 8210, Ap	1104	31.6	2.3	894	1	US-08-457-552-7	Sequence 7, Appli
c1032	31.8	2.3	2737	4	US-09-902-540-3798	Sequence 3798, Ap	1105	31.6	2.3	894	1	US-08-456-430-7	Sequence 7, Appli
c1033	31.8	2.3	2831	4	US-09-477-135A-117	Sequence 117, App	1106	31.6	2.3	894	2	US-08-994-418-7	Sequence 7, Appli
c1034	31.8	2.3	2852	3	US-09-056-556-203	Sequence 203, App	1107	31.6	2.3	894	5	PCT-US95-00432-7	Sequence 7, Appli
c1035	31.8	2.3	2852	3	US-09-072-536-198	Sequence 198, App	1108	31.6	2.3	939	2	US-09-252-991A-3645	Sequence 3645, Ap
c1036	31.8	2.3	2852	3	US-09-072-536-203	Sequence 203, App	1109	31.6	2.3	939	2	US-08-761-277A-46	Sequence 46, Appl
c1037	31.8	2.3	2859	4	US-09-252-991A-944	Sequence 944, App	1110	31.6	2.3	999	4	US-09-902-540-8492	Sequence 8492, Ap
c1038	31.8	2.3	3113	4	US-09-894-998A-52	Sequence 52, Appl	c1111	31.6	2.3	1029	4	US-09-252-991A-9770	Sequence 9770, Ap
c1039	31.8	2.3	3113	4	US-10-237-551-52	Sequence 52, Appl	1112	31.6	2.3	1056	4	US-09-902-540-7309	Sequence 7309, Ap
c1040	31.8	2.3	3187	2	US-08-910-856-9	Sequence 9, Appli	1113	31.6	2.3	1077	4	US-09-902-540-8685	Sequence 8685, Ap
c1041	31.8	2.3	3187	2	US-08-910-856-10	Sequence 10, Appl	1114	31.6	2.3	1101	4	US-09-252-991A-2487	Sequence 2487, Ap
c1042	31.8	2.3	3187	4	US-09-672-749-16	Sequence 16, Appl	1115	31.6	2.3	1101	2	US-08-465-794-4	Sequence 4, Appli
c1043	31.8	2.3	3345	4	US-09-894-998A-49	Sequence 49, Appl	1116	31.6	2.3	1179	3	US-09-049-813-4	Sequence 25, Appl
c1044	31.8	2.3	3345	4	US-10-237-551-49	Sequence 49, Appl	1117	31.6	2.3	1194	4	US-09-724-797-25	Sequence 2543, Ap
c1045	31.8	2.3	3345	4	US-10-237-551-189	Sequence 189, App	1118	31.6	2.3	1278	4	US-09-252-991A-2643	Sequence 2643, Ap
c1046	31.8	2.3	3350	4	US-09-894-998A-48	Sequence 48, Appl	c1119	31.6	2.3	1461	4	US-09-902-540-5492	Sequence 5492, Ap
c1047	31.8	2.3	3350	4	US-10-237-551-48	Sequence 48, Appl	1120	31.6	2.3	1506	4	US-09-902-540-4855	Sequence 4855, Ap
c1048	31.8	2.3	3618	4	US-09-902-540-9652	Sequence 9652, Ap	1121	31.6	2.3	1540	4	US-09-270-767-11959	Sequence 11959, A
c1049	31.8	2.3	3666	4	US-09-902-540-484	Sequence 484, App	1122	31.6	2.3	1602	4	US-09-902-540-7421	Sequence 7421, Ap



1123	31.6	2.3	1630	3	US-09-615-192A-107	Sequence 107, App	1196	31.4	2.3	385	4	US-09-688-489-67	Sequence 67, Appl
1124	31.6	2.3	1630	4	US-09-169-789-107	Sequence 107, App	1197	31.4	2.3	385	4	US-09-679-426-67	Sequence 67, Appl
1125	31.6	2.3	1674	4	US-09-949-016-3095	Sequence 3095, App	1198	31.4	2.3	385	4	US-09-759-143-67	Sequence 67, Appl
c1126	31.6	2.3	1722	4	US-09-252-991A-9857	Sequence 9857, App	1199	31.4	2.3	385	4	US-09-651-236-67	Sequence 67, Appl
1127	31.6	2.3	1740	4	US-09-902-540-4414	Sequence 4414, App	c1200	31.4	2.3	465	4	US-09-252-991A-1233	Sequence 1233, App
1128	31.6	2.3	1872	3	US-09-801-052-1	Sequence 1, Appl	1201	31.4	2.3	483	4	US-09-902-540-3490	Sequence 3490, App
1129	31.6	2.3	1872	4	US-10-020-121-1	Sequence 1, Appl	c1202	31.4	2.3	601	4	US-09-949-016-121670	Sequence 121670, App
1130	31.6	2.3	1879	2	US-08-403-852D-5	Sequence 5, Appl	1203	31.4	2.3	657	4	US-09-902-540-4367	Sequence 4367, App
1131	31.6	2.3	1879	3	US-08-510-646B-5	Sequence 5, Appl	1204	31.4	2.3	666	4	US-09-252-991A-3989	Sequence 3989, App
1132	31.6	2.3	1879	3	US-09-231-818-5	Sequence 5, Appl	c1205	31.4	2.3	738	4	US-09-252-991A-6015	Sequence 6015, App
1133	31.6	2.3	1879	4	US-09-635-359B-5	Sequence 5, Appl	1206	31.4	2.3	744	4	US-09-902-540-3414	Sequence 3414, App
1134	31.6	2.3	1881	4	US-09-252-991A-3697	Sequence 3697, App	1207	31.4	2.3	786	1	US-08-403-379A-2	Sequence 2, Appl
1135	31.6	2.3	1884	4	US-09-902-540-4066	Sequence 4066, App	1208	31.4	2.3	786	2	US-08-923-414-2	Sequence 2, Appl
1136	31.6	2.3	1894	1	US-08-615-170-20	Sequence 20, Appl	c1209	31.4	2.3	798	4	US-09-252-991A-11152	Sequence 11152, App
1137	31.6	2.3	1897	1	US-08-615-170-18	Sequence 18, Appl	1210	31.4	2.3	837	4	US-09-252-991A-5035	Sequence 5035, App
c1138	31.6	2.3	1901	4	US-09-902-540-488	Sequence 488, App	c1211	31.4	2.3	837	4	US-09-252-991A-5100	Sequence 5100, App
1139	31.6	2.3	1927	3	US-09-336-643A-3	Sequence 3, Appl	1212	31.4	2.3	874	4	US-09-902-540-6914	Sequence 6914, App
c1140	31.6	2.3	1941	4	US-09-252-991A-2378	Sequence 2378, App	1213	31.4	2.3	888	4	US-09-023-655-1440	Sequence 1440, App
c1141	31.6	2.3	1998	4	US-09-252-991A-3812	Sequence 3812, App	1214	31.4	2.3	921	4	US-09-252-991A-1415	Sequence 1415, App
c1142	31.6	2.3	2070	4	US-09-252-991A-2189	Sequence 2189, App	1215	31.4	2.3	926	1	US-08-106-507-1	Sequence 1, Appl
1143	31.6	2.3	2096	4	US-09-598-401C-60	Sequence 60, Appl	1216	31.4	2.3	936	4	US-09-252-991A-16286	Sequence 16286, App
1144	31.6	2.3	2131	4	US-09-220-132-145	Sequence 145, App	1217	31.4	2.3	978	4	US-09-252-991A-3850	Sequence 3850, App
1145	31.6	2.3	2187	4	US-09-902-540-3500	Sequence 3500, App	c1218	31.4	2.3	978	4	US-09-252-991A-15990	Sequence 15990, App
c1146	31.6	2.3	2231	3	US-09-008-271A-24	Sequence 24, Appl	1219	31.4	2.3	995	3	US-09-540-014-10	Sequence 10, Appl
1147	31.6	2.3	2456	3	US-08-813-150-5	Sequence 5, Appl	1220	31.4	2.3	995	3	US-09-540-014-23	Sequence 23, Appl
c1148	31.6	2.3	2456	4	US-09-546-553-5	Sequence 5, Appl	1221	31.4	2.3	995	4	US-10-091-841A-10	Sequence 10, Appl
c1149	31.6	2.3	2571	4	US-09-252-991A-4873	Sequence 4873, App	1222	31.4	2.3	995	4	US-10-091-841A-23	Sequence 23, Appl
1150	31.6	2.3	2820	4	US-09-252-991A-2538	Sequence 2538, App	1223	31.4	2.3	1128	4	US-09-252-991A-6376	Sequence 6376, App
1151	31.6	2.3	2840	4	US-09-252-991A-4827	Sequence 4827, App	c1224	31.4	2.3	1154	3	US-09-347-803-15	Sequence 15, Appl
c1152	31.6	2.3	2868	4	US-09-902-540-2054	Sequence 2054, App	c1225	31.4	2.3	1237	4	US-09-774-528-349	Sequence 349, App
1153	31.6	2.3	4825	4	US-09-902-540-692	Sequence 692, App	1226	31.4	2.3	1360	2	US-08-704-931-1	Sequence 1, Appl
1154	31.6	2.3	4989	4	US-09-693-011-12	Sequence 12, Appl	1227	31.4	2.3	1422	4	US-09-252-991A-7828	Sequence 7828, App
1155	31.6	2.3	5083	4	US-09-693-011-11	Sequence 11, Appl	1228	31.4	2.3	1425	4	US-09-252-991A-7902	Sequence 7902, App
1156	31.6	2.3	6314	4	US-09-693-011-10	Sequence 10, Appl	1229	31.4	2.3	1428	4	US-09-902-540-2766	Sequence 2766, App
1157	31.6	2.3	6408	4	US-09-693-011-9	Sequence 9, Appl	c1230	31.4	2.3	1434	4	US-09-252-991A-3945	Sequence 3945, App
c1158	31.6	2.3	7229	4	US-09-902-540-919	Sequence 919, App	c1231	31.4	2.3	1449	4	US-09-252-991A-7657	Sequence 7657, App
1159	31.6	2.3	7317	4	US-09-902-540-715	Sequence 715, App	1232	31.4	2.3	1455	4	US-09-902-540-3057	Sequence 3057, App
c1160	31.6	2.3	7538	4	US-09-902-540-894	Sequence 894, App	1233	31.4	2.3	1458	4	US-09-270-767-11801	Sequence 11801, App
c1161	31.6	2.3	7698	4	US-09-902-540-812	Sequence 812, App	1234	31.4	2.3	1521	4	US-09-252-991A-3958	Sequence 3958, App
c1162	31.6	2.3	9053	4	US-09-902-540-815	Sequence 815, App	1235	31.4	2.3	1533	4	US-08-252-991A-16513	Sequence 16513, App
1163	31.6	2.3	10993	4	US-09-902-540-1030	Sequence 1030, App	c1236	31.4	2.3	1539	4	US-09-252-991A-3657	Sequence 3657, App
1164	31.6	2.3	11566	4	US-09-902-540-1088	Sequence 1088, App	1237	31.4	2.3	1552	4	US-09-786-240-24	Sequence 24, Appl
1165	31.6	2.3	16063	3	US-09-801-052-3	Sequence 3, Appl	c1238	31.4	2.3	1593	4	US-09-252-991A-6768	Sequence 6768, App
1166	31.6	2.3	16063	4	US-10-020-121-3	Sequence 3, Appl	c1239	31.4	2.3	1656	3	US-09-385-028-14	Sequence 14, Appl
c1167	31.6	2.3	18471	4	US-09-902-540-1167	Sequence 1167, App	c1240	31.4	2.3	1656	4	US-09-726-614-14	Sequence 14, Appl
1168	31.6	2.3	21295	4	US-09-902-540-1194	Sequence 1194, App	c1241	31.4	2.3	1656	4	US-08-385-040-14	Sequence 14, Appl
c1169	31.6	2.3	21511	4	US-09-902-540-1239	Sequence 1239, App	1242	31.4	2.3	1689	4	US-09-252-991A-6972	Sequence 6972, App
1170	31.6	2.3	25048	4	US-09-902-540-1239	Sequence 1239, App	c1243	31.4	2.3	1761	4	US-09-902-540-3727	Sequence 3727, App
c1171	31.6	2.3	25254	4	US-09-902-540-1233	Sequence 1233, App	1244	31.4	2.3	1782	4	US-09-252-991A-5094	Sequence 5094, App
c1172	31.6	2.3	26314	4	US-09-949-016-16389	Sequence 16389, App	1245	31.4	2.3	1902	4	US-09-252-991A-6926	Sequence 6926, App
c1173	31.6	2.3	27578	4	US-09-949-016-12167	Sequence 12167, App	1246	31.4	2.3	1926	4	US-09-248-796A-3871	Sequence 3871, App
c1174	31.6	2.3	27579	4	US-09-949-016-15005	Sequence 15005, App	1247	31.4	2.3	1977	4	US-09-902-540-4798	Sequence 4798, App
c1175	31.6	2.3	41768	4	US-09-902-540-1266	Sequence 1266, App	1248	31.4	2.3	2136	4	US-09-252-991A-6294	Sequence 6294, App
c1176	31.6	2.3	50937	3	US-09-428-517-1	Sequence 1, Appl	c1249	31.4	2.3	2205	4	US-09-252-991A-11217	Sequence 11217, App
1177	31.6	2.3	54484	4	US-09-902-540-1272	Sequence 1272, App	1250	31.4	2.3	2275	3	US-09-391-104-2	Sequence 2, Appl
1178	31.6	2.3	72704	4	US-09-902-540-1273	Sequence 1273, App	1251	31.4	2.3	2334	4	US-09-252-991A-3807	Sequence 3807, App
c1179	31.6	2.3	76962	4	US-09-949-016-17482	Sequence 17482, App	1252	31.4	2.3	2454	4	US-09-252-991A-11038	Sequence 11038, App
1180	31.6	2.3	91062	4	US-09-949-016-13019	Sequence 13019, App	c1253	31.4	2.3	2553	4	US-09-902-540-2867	Sequence 2867, App
1181	31.6	2.3	100928	4	US-09-949-016-16926	Sequence 16926, App	1254	31.4	2.3	2561	4	US-09-616-289-48	Sequence 48, Appl
1182	31.6	2.3	110585	4	US-09-949-016-13427	Sequence 13427, App	1255	31.4	2.3	2755	4	US-09-902-540-5035	Sequence 5035, App
1183	31.6	2.3	125672	4	US-09-949-016-16956	Sequence 16956, App	1256	31.4	2.3	2853	4	US-09-252-991A-12441	Sequence 12441, App
1184	31.6	2.3	145912	4	US-09-949-016-15698	Sequence 15698, App	c1257	31.4	2.3	3864	4	US-09-252-991A-13035	Sequence 13035, App
1185	31.6	2.3	421118	4	US-09-949-016-18297	Sequence 18297, App	c1258	31.4	2.3	3948	4	US-09-252-991A-6175	Sequence 6175, App
c1186	31.4	2.3	288	4	US-09-252-991A-8784	Sequence 8784, App	c1259	31.4	2.3	4829	4	US-09-902-540-592	Sequence 592, App
1187	31.4	2.3	385	3	US-09-020-956-67	Sequence 67, Appl	c1260	31.4	2.3	5673	4	US-09-902-540-8259	Sequence 8259, App
1188	31.4	2.3	385	3	US-09-030-607-67	Sequence 67, Appl	1261	31.4	2.3	5973	4	US-09-902-540-3951	Sequence 3951, App
1189	31.4	2.3	385	3	US-09-439-313-67	Sequence 67, Appl	1262	31.4	2.3	6725	3	US-08-949-386-36	Sequence 36, Appl
1190	31.4	2.3	385	3	US-09-352-616A-67	Sequence 67, Appl	1263	31.4	2.3	6725	3	US-08-450-562-36	Sequence 36, Appl
1191	31.4	2.3	385	3	US-09-232-149A-67	Sequence 67, Appl	1264	31.4	2.3	6725	3	US-08-984-709A-36	Sequence 36, Appl
1192	31.4	2.3	385	4	US-09-159-812-67	Sequence 67, Appl	1265	31.4	2.3	6725	3	US-08-450-272-36	Sequence 36, Appl
1193	31.4	2.3	385	4	US-09-636-215-67	Sequence 67, Appl	1266	31.4	2.3	6725	3	US-08-450-273-36	Sequence 36, Appl
1194	31.4	2.3	385	4	US-09-685-166A-67	Sequence 67, Appl	c1267	31.4	2.3	8704	4	US-09-902-540-854	Sequence 854, App
1195	31.4	2.3	385	4	US-09-115-453-67	Sequence 67, Appl	c1268	31.4	2.3	11732	4	US-09-902-540-1061	Sequence 1061, App

c1269	31.4	2.3	17188	4	US-09-902-540-1166	Sequence 1166, Ap	1342	31.2	2.3	1629	4	US-09-252-991A-9685	Sequence 9685, Ap
1270	31.4	2.3	17592	4	US-09-902-540-1130	Sequence 1138, Ap	1343	31.2	2.3	1635	4	US-09-902-540-8622	Sequence 8622, Ap
c1271	31.4	2.3	17862	4	US-09-902-540-1130	Sequence 1138, Ap	1344	31.2	2.3	1818	4	US-09-475-515-59	Sequence 59, Appl
c1272	31.4	2.3	19112	4	US-09-902-540-1181	Sequence 1181, Ap	1345	31.2	2.3	1818	4	US-09-475-515-61	Sequence 61, Appl
1273	31.4	2.3	22156	4	US-09-902-540-1195	Sequence 1195, Ap	1346	31.2	2.3	1818	4	US-09-475-515-62	Sequence 62, Appl
c1274	31.4	2.3	23694	4	US-09-740-027-3	Sequence 3, Appl	1347	31.2	2.3	1839	4	US-09-252-991A-9156	Sequence 9156, Ap
1275	31.4	2.3	24707	4	US-09-949-016-12341	Sequence 12341, A	1348	31.2	2.3	1848	4	US-09-252-991A-9071	Sequence 9071, Ap
1276	31.4	2.3	24720	4	US-09-949-016-15610	Sequence 15610, A	1349	31.2	2.3	1863	4	US-09-475-515-63	Sequence 63, Appl
1277	31.4	2.3	24721	4	US-09-902-540-1236	Sequence 1236, Ap	1350	31.2	2.3	1876	3	US-09-082-092-5	Sequence 5, Appl
1278	31.4	2.3	29103	4	US-09-902-540-1249	Sequence 1249, Ap	1351	31.2	2.3	1876	4	US-09-885-722A-5	Sequence 5, Appl
1279	31.4	2.3	30135	4	US-09-902-540-1249	Sequence 1249, Ap	1352	31.2	2.3	1879	4	US-09-023-655-597	Sequence 597, App
1280	31.4	2.3	80858	4	US-09-949-016-12659	Sequence 12659, A	c1353	31.2	2.3	1880	4	US-09-252-991A-8712	Sequence 8712, Ap
1281	31.4	2.3	80859	4	US-09-949-016-15715	Sequence 15715, A	1354	31.2	2.3	2031	4	US-09-475-515-60	Sequence 60, Appl
1282	31.2	2.3	273	3	US-09-068-101-3	Sequence 3, Appl	1355	31.2	2.3	2091	4	US-10-237-551-78	Sequence 78, Appl
1283	31.2	2.3	273	3	US-09-970-921-3	Sequence 3, Appl	1356	31.2	2.3	2091	4	US-10-237-551-226	Sequence 226, App
c1284	31.2	2.3	318	4	US-09-328-352-21	Sequence 21, Appl	1357	31.2	2.3	2112	4	US-09-475-515-56	Sequence 56, Appl
c1285	31.2	2.3	336	2	US-07-814-420-3	Sequence 3, Appl	1358	31.2	2.3	2112	4	US-09-475-515-57	Sequence 57, Appl
c1286	31.2	2.3	336	2	US-07-814-420-3	Sequence 3, Appl	1359	31.2	2.3	2118	4	US-10-237-551-87	Sequence 87, Appl
1287	31.2	2.3	351	4	US-09-328-352-24	Sequence 24, Appl	1360	31.2	2.3	2181	4	US-09-475-515-58	Sequence 58, Appl
c1288	31.2	2.3	411	4	US-09-252-991A-8321	Sequence 8321, Ap	1361	31.2	2.3	2185	2	US-08-467-948A-3	Sequence 3, Appl
c1289	31.2	2.3	537	4	US-09-252-991A-12892	Sequence 12892, A	1362	31.2	2.3	2185	3	US-08-467-947A-3	Sequence 3, Appl
1290	31.2	2.3	563	3	US-09-068-101-6	Sequence 6, Appl	1363	31.2	2.3	2190	4	US-09-252-991A-10256	Sequence 10256, A
1291	31.2	2.3	563	4	US-09-970-921-6	Sequence 6, Appl	1364	31.2	2.3	2204	1	US-08-221-817-12	Sequence 12, Appl
c1292	31.2	2.3	601	4	US-09-949-016-58082	Sequence 58082, A	1365	31.2	2.3	2204	1	US-08-454-438-12	Sequence 12, Appl
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c1297	31.2	2.3	651	4	US-09-082-562-1	Sequence 1, Appl	1370	31.2	2.3	2340	4	US-09-475-515-68	Sequence 68, Appl
c1298	31.2	2.3	663	4	US-09-252-991A-14156	Sequence 14156, A	1371	31.2	2.3	2340	4	US-09-634-958B-3	Sequence 3, Appl
c1299	31.2	2.3	708	4	US-09-205-815B-39	Sequence 39, Appl	1372	31.2	2.3	2406	4	US-09-816-760-3	Sequence 3, Appl
c1300	31.2	2.3	708	4	US-09-252-991A-16223	Sequence 16223, A	1373	31.2	2.3	2406	4	US-09-838-561-3	Sequence 3, Appl
c1301	31.2	2.3	722	3	US-08-998-416-800	Sequence 800, App	1374	31.2	2.3	2538	4	US-09-475-515-65	Sequence 65, Appl
1302	31.2	2.3	753	3	US-08-998-416-567	Sequence 567, App	1375	31.2	2.3	2553	4	US-09-475-515-66	Sequence 66, Appl
1303	31.2	2.3	783	4	US-09-252-991A-8452	Sequence 8452, Ap	1376	31.2	2.3	2574	2	US-08-583-562B-1	Sequence 1, Appl
c1304	31.2	2.3	784	4	US-09-902-540-5264	Sequence 5264, Ap	1377	31.2	2.3	2574	2	US-08-779-113-1	Sequence 1, Appl
1305	31.2	2.3	798	4	US-09-252-991A-13054	Sequence 13054, A	1378	31.2	2.3	2634	4	US-09-475-515-64	Sequence 4, Appl
1306	31.2	2.3	798	4	US-09-902-540-4803	Sequence 4803, Ap	1379	31.2	2.3	2660	4	US-09-634-955B-1	Sequence 1, Appl
c1307	31.2	2.3	852	4	US-09-252-991A-16375	Sequence 16375, A	1380	31.2	2.3	2660	4	US-09-816-760-1	Sequence 1, Appl
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c1309	31.2	2.3	864	4	US-09-252-991A-14323	Sequence 14323, A	1382	31.2	2.3	2712	4	US-09-270-767-14291	Sequence 14291, A
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c1311	31.2	2.3	915	4	US-09-902-540-6483	Sequence 6483, Ap	c1384	31.2	2.3	2848	3	US-09-252-991A-8811	Sequence 8811, Ap
c1312	31.2	2.3	954	4	US-09-252-991A-14115	Sequence 14115, A	1385	31.2	2.3	2848	3	US-08-464-954A-2	Sequence 2, Appl
c1313	31.2	2.3	966	4	US-09-252-991A-8354	Sequence 8354, Ap	1386	31.2	2.3	3103	3	US-08-826-246-3	Sequence 3, Appl
1314	31.2	2.3	969	4	US-09-252-991A-14408	Sequence 14408, A	1387	31.2	2.3	3103	3	US-08-944-495-3	Sequence 3, Appl
1315	31.2	2.3	1074	3	US-09-516-314-16	Sequence 16, Appl	1388	31.2	2.3	3103	3	US-09-126-640-2	Sequence 2, Appl
c1316	31.2	2.3	1094	4	US-09-522-714-1	Sequence 1, Appl	1389	31.2	2.3	3103	3	US-08-925-588-3	Sequence 3, Appl
c1317	31.2	2.3	1110	4	US-09-252-991A-8388	Sequence 8388, Ap	1390	31.2	2.3	3103	3	US-09-288-292A-2	Sequence 2, Appl
1318	31.2	2.3	1131	4	US-09-252-991A-8486	Sequence 8486, Ap	1391	31.2	2.3	3103	4	US-09-372-044-3	Sequence 3, Appl
c1319	31.2	2.3	1155	4	US-09-902-540-8344	Sequence 8344, Ap	1392	31.2	2.3	3103	4	US-08-825-486-3	Sequence 3, Appl
1320	31.2	2.3	1161	4	US-09-902-540-3673	Sequence 3673, Ap	1393	31.2	2.3	3103	4	US-08-826-248-3	Sequence 3, Appl
c1321	31.2	2.3	1200	4	US-09-252-991A-14709	Sequence 14709, A	1394	31.2	2.3	3111	3	US-09-487-444-3	Sequence 3, Appl
c1322	31.2	2.3	1266	4	US-09-252-991A-8926	Sequence 8926, Ap	1395	31.2	2.3	3135	4	US-09-902-540-5547	Sequence 5547, Ap
1323	31.2	2.3	1281	3	US-09-082-092-8	Sequence 8, Appl	1396	31.2	2.3	3135	4	US-09-252-991A-14020	Sequence 14020, A
1324	31.2	2.3	1281	4	US-09-885-722A-8	Sequence 8, Appl	1397	31.2	2.3	3430	4	US-09-949-016-1763	Sequence 1763, Ap
1325	31.2	2.3	1290	4	US-09-252-991A-15040	Sequence 15040, A	1398	31.2	2.3	3450	4	US-09-902-540-9001	Sequence 9001, Ap
c1326	31.2	2.3	1299	4	US-09-252-991A-14263	Sequence 14263, A	1399	31.2	2.3	3450	4	US-09-902-540-2552	Sequence 2552, Ap
c1327	31.2	2.3	1334	4	US-09-082-562-2	Sequence 2, Appl	c1400	31.2	2.3	4176	4	US-09-902-540-872	Sequence 872, App
c1328	31.2	2.3	1335	4	US-09-205-815B-40	Sequence 40, Appl	1401	31.2	2.3	4472	4	US-09-475-515-75	Sequence 75, Appl
1329	31.2	2.3	1335	4	US-09-205-815B-41	Sequence 41, Appl	1402	31.2	2.3	4472	4	US-09-475-515-73	Sequence 73, Appl
1330	31.2	2.3	1350	4	US-09-475-515-55	Sequence 55, Appl	1403	31.2	2.3	5349	3	US-09-068-101-7	Sequence 7, Appl
c1331	31.2	2.3	1362	4	US-09-252-991A-10470	Sequence 10470, A	1404	31.2	2.3	5349	3	US-09-970-921-7	Sequence 7, Appl
1332	31.2	2.3	1425	4	US-09-266-965-63	Sequence 63, Appl	1405	31.2	2.3	5611	3	US-09-068-101-10	Sequence 10, Appl
1333	31.2	2.3	1437	4	US-09-489-039A-196	Sequence 196, App	1406	31.2	2.3	5611	4	US-09-970-921-10	Sequence 10, Appl
1334	31.2	2.3	1449	4	US-09-252-991A-14921	Sequence 14921, A	c1407	31.2	2.3	7305	4	US-09-902-540-961	Sequence 961, App
1335	31.2	2.3	1470	4	US-09-252-991A-6325	Sequence 6325, Ap	c1408	31.2	2.3	7382	4	US-09-902-540-911	Sequence 911, App
c1336	31.2	2.3	1473	4	US-09-252-991A-6144	Sequence 6144, Ap	1409	31.2	2.3	9440	4	US-09-949-016-15352	Sequence 15352, A
c1337	31.2	2.3	1512	4	US-09-252-991A-6219	Sequence 6219, Ap	c1410	31.2	2.3	12241	4	US-09-948-138-4	Sequence 4, Appl
1338	31.2	2.3	1548	4	US-09-489-039A-1658	Sequence 1658, Ap	1411	31.2	2.3	13737	3	US-09-538-414-10	Sequence 10, Appl
1339	31.2	2.3	1566	4	US-09-252-991A-14354	Sequence 14354, A	1412	31.2	2.3	13737	3	US-10-074-279-10	Sequence 10, Appl
1340	31.2	2.3	1599	4	US-09-475-515-54	Sequence 54, Appl	1413	31.2	2.3	14272	3	US-09-516-914-23	Sequence 23, Appl
c1341	31.2	2.3	1626	4	US-09-252-991A-10598	Sequence 10598, A	1414	31.2	2.3	14446	4	US-09-810-861B-4	Sequence 4, Appl



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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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C 48	39.2	2.1	4411529	3	US-09-103-840A-1	Sequence 1, Appli
49	39	2.1	1428	4	US-09-902-540-7081	Sequence 7081, Ap
C 50	39	2.1	7218	1	US-08-232-463-14	Sequence 14, Appl
51	39	2.1	9497	4	US-09-902-540-1054	Sequence 1054, Ap
52	38.8	2.1	1344	4	US-09-902-540-7395	Sequence 7395, Ap
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54	38.6	2.1	1155	2	US-08-387-942C-21	Sequence 21, Appl
55	38.6	2.1	1341	4	US-09-252-991A-1920	Sequence 1920, Ap
56	38.6	2.1	1362	4	US-09-252-991A-1839	Sequence 1839, Ap
C 57	38.6	2.1	1407	4	US-09-252-991A-2037	Sequence 2037, Ap
58	38.6	2.1	14706	4	US-09-949-016-16122	Sequence 16122, A
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61	38.4	2.0	4219	4	US-09-902-540-519	Sequence 519, App
C 62	38.2	2.0	402	4	US-09-270-767-13302	Sequence 13302, A
C 63	38.2	2.0	636	4	US-09-252-991A-9106	Sequence 9106, Ap
C 64	38.2	2.0	2571	4	US-09-252-991A-9022	Sequence 9022, Ap
65	38.2	2.0	3150	4	US-09-252-991A-8765	Sequence 8765, Ap
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C 71	37.8	2.0	3756	4	US-09-252-991A-692	Sequence 692, App
C 72	37.8	2.0	3774	4	US-09-252-991A-719	Sequence 719, App
C 73	37.8	2.0	6885	4	US-09-252-991A-660	Sequence 660, App
74	37.6	2.0	1616	4	US-09-902-540-2614	Sequence 2614, Ap
75	37.6	2.0	15338	4	US-09-902-540-1121	Sequence 1121, Ap
76	37.6	2.0	31035	4	US-09-949-016-12272	Sequence 12272, A
77	37.6	2.0	31035	4	US-09-949-016-17266	Sequence 17266, A
78	37.4	2.0	1043	4	US-09-902-540-2570	Sequence 2570, Ap
79	37.4	2.0	2335	3	US-09-387-574-9	Sequence 9, Appli
80	37.4	2.0	2335	3	US-09-668-096-9	Sequence 9, Appli
81	37.4	2.0	13855	4	US-09-902-540-1117	Sequence 1117, Ap
82	37.4	2.0	27270	4	US-09-949-016-13822	Sequence 13822, A
83	37.2	2.0	425	4	US-09-621-976-42	Sequence 42, Appl
84	37.2	2.0	1070	3	US-09-470-443-7	Sequence 7, Appli
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86	37.2	2.0	3726	1	US-08-286-889-1	Sequence 1, Appli
87	37.2	2.0	3726	1	US-08-485-618-1	Sequence 1, Appli
88	37.2	2.0	3726	1	US-08-362-652-1	Sequence 1, Appli
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91	37.2	2.0	3726	2	US-08-943-363-1	Sequence 1, Appli
92	37.2	2.0	3726	3	US-09-193-043-1	Sequence 1, Appli
93	37.2	2.0	3726	3	US-09-688-307A-1	Sequence 1, Appli
94	37.2	2.0	3726	4	US-09-350-259-1	Sequence 1, Appli
95	37.2	2.0	3785	1	US-08-485-618-98	Sequence 98, Appl
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102	37.2	2.0	3956	1	US-08-485-618-97	Sequence 97, Appl	175	36	1.9	327	4	US-09-252-991A-11817	Sequence 11817, A
103	37.2	2.0	3956	1	US-08-605-672-97	Sequence 97, Appl	176	36	1.9	819	4	US-09-302-540-8704	Sequence 8704, A
104	37.2	2.0	3956	2	US-08-482-233A-37	Sequence 97, Appl	177	36	1.9	1001	4	US-08-270-767-14079	Sequence 14079, A
105	37.2	2.0	3956	2	US-08-943-363-97	Sequence 97, Appl	178	36	1.9	1197	4	US-09-252-991A-13715	Sequence 13715, A
106	37.2	2.0	3956	3	US-09-193-043-97	Sequence 97, Appl	179	36	1.9	1422	4	US-09-252-991A-13630	Sequence 13630, A
107	37.2	2.0	3956	3	US-09-193-043-97	Sequence 97, Appl	180	36	1.9	1614	4	US-09-252-991A-113818	Sequence 113818, A
108	37.2	2.0	3956	4	US-09-688-307A-97	Sequence 97, Appl	181	36	1.9	1686	4	US-09-252-991A-11503	Sequence 11503, A
109	37.2	2.0	7513	4	US-09-350-259-97	Sequence 97, Appl	182	36	1.9	1878	4	US-09-501-097A-10	Sequence 10, Appl
110	37.2	2.0	131978	4	US-09-902-540-892	Sequence 892, App	183	36	1.9	1920	4	US-09-252-991A-11882	Sequence 11882, A
C 111	37	2.0	729	4	US-09-949-016-13117	Sequence 13117, A	184	36	1.9	2172	4	US-08-501-097A-19	Sequence 19, Appl
112	37	2.0	749	3	US-09-252-991A-2450	Sequence 2450, App	185	36	1.9	2175	4	US-09-613-303-44	Sequence 44, Appl
113	37	2.0	832	4	US-09-257-583-12	Sequence 12, Appl	186	36	1.9	2175	4	US-10-267-311-44	Sequence 44, Appl
114	37	2.0	1020	4	US-09-621-976-2813	Sequence 2813, App	187	36	1.9	7109	4	US-09-302-540-922	Sequence 922, App
115	37	2.0	1038	4	US-09-252-991A-2226	Sequence 2226, App	188	35.8	1.9	462	4	US-09-252-991A-3972	Sequence 3972, App
C 116	37	2.0	1194	4	US-09-252-991A-2301	Sequence 2301, App	189	35.8	1.9	601	4	US-09-949-016-138275	Sequence 138275, A
C 117	37	2.0	1221	4	US-09-902-540-6067	Sequence 6067, App	190	35.8	1.9	666	4	US-09-252-991A-5083	Sequence 5083, App
118	37	2.0	1665	4	US-09-252-991A-2611	Sequence 2611, App	191	35.8	1.9	1047	4	US-09-252-991A-5135	Sequence 5135, App
C 119	37	2.0	2348	3	US-09-902-540-257	Sequence 257, App	192	35.8	1.9	1425	4	US-09-252-991A-11848	Sequence 11848, A
C 120	37	2.0	2348	4	US-08-990-823-61	Sequence 61, Appl	193	35.8	1.9	1446	4	US-09-252-991A-11593	Sequence 11593, A
121	36.8	2.0	1662	4	US-09-477-135A-61	Sequence 61, Appl	194	35.8	1.9	1638	4	US-09-799-451-412	Sequence 412, App
C 122	36.8	2.0	1839	4	US-09-252-991A-1137	Sequence 1137, App	195	35.8	1.9	2118	4	US-09-252-991A-11782	Sequence 11782, A
123	36.8	2.0	13018	4	US-09-252-991A-945	Sequence 945, App	196	35.8	1.9	2487	4	US-09-302-540-3591	Sequence 3591, App
124	36.8	2.0	13090	4	US-09-943-016-14767	Sequence 14767, A	197	35.8	1.9	3102	4	US-09-252-991A-4040	Sequence 4040, App
125	36.8	2.0	13090	4	US-09-949-016-12450	Sequence 12450, A	198	35.8	1.9	3575	4	US-09-023-655-1395	Sequence 1395, App
C 126	36.6	2.0	435	4	US-09-949-016-14372	Sequence 14372, A	199	35.8	1.9	4284	4	US-09-252-991A-4006	Sequence 4006, App
C 127	36.6	2.0	505	4	US-09-252-991A-5863	Sequence 5863, App	200	35.8	1.9	4704	4	US-09-252-991A-3906	Sequence 3906, App
C 128	36.6	2.0	601	4	US-09-621-976-15639	Sequence 15639, A	201	35.8	1.9	20113	4	US-09-302-540-1173	Sequence 1173, App
129	36.6	2.0	1287	4	US-09-949-016-199022	Sequence 199022, A	202	35.8	1.9	153642	4	US-09-949-016-12174	Sequence 12174, A
130	36.6	2.0	1329	4	US-09-252-991A-5766	Sequence 5766, App	203	35.8	1.9	153643	4	US-09-949-016-15635	Sequence 15635, A
C 131	36.6	2.0	1857	4	US-09-252-991A-5804	Sequence 5804, App	204	35.8	1.9	4411529	3	US-09-103-840A-1	Sequence 1, Appl
132	36.6	2.0	152393	4	US-09-252-991A-5847	Sequence 5847, App	205	35.6	1.9	1125	4	US-09-302-540-4102	Sequence 4102, App
133	36.6	2.0	152393	4	US-09-949-016-14514	Sequence 14514, A	206	35.6	1.9	1776	4	US-09-302-540-7046	Sequence 7046, App
134	36.6	2.0	156894	4	US-09-949-016-14515	Sequence 14515, A	207	35.6	1.9	1965	4	US-09-302-540-7293	Sequence 7293, App
135	36.6	2.0	156894	4	US-09-949-016-12765	Sequence 12765, A	208	35.6	1.9	3283	3	US-08-651-656-16	Sequence 16, Appl
136	36.6	2.0	156895	4	US-09-949-016-12766	Sequence 12766, A	209	35.6	1.9	3283	3	US-09-650-855-16	Sequence 16, Appl
137	36.6	2.0	156895	4	US-09-949-016-16957	Sequence 16957, A	210	35.6	1.9	4094	4	US-09-949-016-2416	Sequence 2416, App
138	36.6	2.0	156895	4	US-09-949-016-16958	Sequence 16958, A	211	35.6	1.9	4532	4	US-09-302-540-626	Sequence 626, App
139	36.6	2.0	167677	4	US-09-949-016-16959	Sequence 16959, A	212	35.6	1.9	4808	4	US-09-302-540-689	Sequence 689, App
140	36.6	2.0	767677	4	US-09-949-016-12147	Sequence 12147, A	213	35.6	1.9	23738	4	US-09-302-540-1203	Sequence 1203, App
C 141	36.4	1.9	430	4	US-09-949-016-17361	Sequence 17361, A	214	35.6	1.9	40586	4	US-09-949-016-16965	Sequence 16965, A
142	36.4	1.9	945	4	US-09-621-976-16656	Sequence 16656, A	215	35.6	1.9	105210	4	US-09-949-016-14158	Sequence 14158, A
143	36.4	1.9	1227	3	US-09-902-540-8070	Sequence 8070, App	216	35.4	1.9	862	4	US-10-000-489-61	Sequence 61, Appl
144	36.4	1.9	1227	3	US-09-074-912-3	Sequence 3, Appl	217	35.4	1.9	874	4	US-09-023-655-1377	Sequence 1377, App
C 145	36.4	1.9	5859	4	US-09-290-136-3	Sequence 3, Appl	218	35.4	1.9	1554	4	US-09-302-540-8631	Sequence 8631, App
146	36.2	1.9	843	4	US-09-902-540-823	Sequence 823, App	219	35.4	1.9	1761	4	US-09-302-540-3727	Sequence 3727, App
147	36.2	1.9	970	2	US-08-773-368-2	Sequence 16117, A	220	35.4	1.9	3445	4	US-09-376-594-323	Sequence 323, App
148	36.2	1.9	970	3	US-09-199-887-2	Sequence 2, Appl	221	35.4	1.9	4168	4	US-09-266-225B-17	Sequence 17, Appl
149	36.2	1.9	1152	4	US-09-252-991A-7652	Sequence 2, Appl	222	35.4	1.9	4279	3	US-09-041-886-22	Sequence 22, Appl
C 150	36.2	1.9	1308	4	US-09-252-991A-6649	Sequence 7652, App	223	35.4	1.9	8320	4	US-09-302-540-913	Sequence 913, App
151	36.2	1.9	1335	4	US-09-252-991A-765	Sequence 6649, App	224	35.4	1.9	19112	4	US-09-302-540-1181	Sequence 1181, App
C 152	36.2	1.9	1383	4	US-09-252-991A-7737	Sequence 765, App	225	35.4	1.9	47981	4	US-09-679-279-1	Sequence 1, Appl
C 153	36.2	1.9	1436	3	US-09-471-396-2	Sequence 7737, App	226	35.2	1.9	393	4	US-09-302-540-7105	Sequence 7105, App
C 154	36.2	1.9	1436	3	US-09-788-345-11	Sequence 2, Appl	227	35.2	1.9	601	4	US-09-949-016-72375	Sequence 72375, App
C 155	36.2	1.9	1524	4	US-09-252-991A-737	Sequence 11, Appl	228	35.2	1.9	601	4	US-09-949-016-72376	Sequence 72376, A
C 156	36.2	1.9	1641	4	US-09-252-991A-646	Sequence 737, App	229	35.2	1.9	601	4	US-09-949-016-72377	Sequence 72377, A
C 157	36.2	1.9	1782	4	US-09-252-991A-6680	Sequence 646, App	230	35.2	1.9	601	4	US-09-949-016-72378	Sequence 72378, A
158	36.2	1.9	1875	4	US-09-907-794A-284	Sequence 6680, App	231	35.2	1.9	663	4	US-09-252-991A-14046	Sequence 14046, A
159	36.2	1.9	1875	4	US-09-907-794A-284	Sequence 284, App	232	35.2	1.9	782	4	US-09-385-173B-21	Sequence 21, Appl
160	36.2	1.9	1875	4	US-09-905-125A-284	Sequence 284, App	233	35.2	1.9	1032	1	US-08-457-797A-4	Sequence 4, Appl
161	36.2	1.9	1875	4	US-09-902-775A-284	Sequence 284, App	234	35.2	1.9	1032	1	US-08-812-025-4	Sequence 4, Appl
162	36.2	1.9	1875	4	US-09-906-700-284	Sequence 284, App	235	35.2	1.9	1647	4	US-09-252-991A-12387	Sequence 12387, A
163	36.2	1.9	1875	4	US-09-903-603A-284	Sequence 284, App	236	35.2	1.9	1987	4	US-09-774-528-158	Sequence 158, App
164	36.2	1.9	1875	4	US-09-904-920A-284	Sequence 284, App	237	35.2	1.9	2198	4	US-09-252-991A-14221	Sequence 14221, A
165	36.2	1.9	1875	4	US-09-909-064-284	Sequence 284, App	238	35.2	1.9	2694	4	US-09-902-540-8458	Sequence 8458, App
166	36.2	1.9	1875	4	US-09-905-381A-284	Sequence 284, App	239	35.2	1.9	2168	4	US-09-902-540-8458	Sequence 2, Appl
167	36.2	1.9	1960	4	US-09-620-312D-7831	Sequence 764, App	240	35.2	1.9	3468	1	US-07-951-715A-2	Sequence 4, Appl
C 168	36.2	1.9	2997	4	US-09-252-991A-7831	Sequence 7831, App	241	35.2	1.9	3468	1	US-08-459-448A-2	Sequence 2, Appl
169	36.2	1.9	3741	4	US-09-252-991A-6569	Sequence 6569, App	242	35.2	1.9	3468	2	US-08-459-448A-2	Sequence 4, Appl
C 170	36.2	1.9	13842	3	US-09-105-537-30	Sequence 30, Appl	243	35.2	1.9	3468	3	US-08-459-595A-2	Sequence 2, Appl
171	36.2	1.9	36778	3	US-09-105-537-5	Sequence 5, Appl	244	35.2	1.9	3468	3	US-08-459-595A-2	Sequence 2, Appl
172	36.2	1.9	38506	3	US-09-320-878-19	Sequence 19, Appl	245	35.2	1.9	3468	3	US-08-459-595A-2	Sequence 2, Appl
173	36.2	1.9	38506	4	US-09-141-908-1	Sequence 1, Appl	246	35.2	1.9	3468	3	US-08-459-595A-2	Sequence 2, Appl

247	35.2	1.9	3468	3	US-08-459-504B-4	Sequence 4, Appli	c 320	34.6	1.8	471	4	US-09-252-991A-263	Sequence 263, App
248	35.2	1.9	3468	3	US-08-459-504B-4	Sequence 2, Appli	321	34.6	1.8	621	2	US-08-381-881-5	Sequence 5, Appli
249	35.2	1.9	3468	3	US-08-459-504B-4	Sequence 4, Appli	322	34.6	1.8	621	2	US-09-281-221-5	Sequence 5, Appli
250	35.2	1.9	3468	3	US-09-053-549-3	Sequence 3, Appli	323	34.6	1.8	743	4	US-09-570-214B-6	Sequence 6, Appli
251	35.2	1.9	3468	3	US-09-053-549-3	Sequence 5, Appli	324	34.6	1.8	771	4	US-09-902-540-3468	Sequence 3468, Ap
252	35.2	1.9	3468	3	US-09-547-422-2	Sequence 2, Appli	c 325	34.6	1.8	813	4	US-09-252-991A-273	Sequence 273, App
253	35.2	1.9	3468	3	US-09-547-422-2	Sequence 4, Appli	c 326	34.6	1.8	837	4	US-09-252-991A-288	Sequence 288, App
254	35.2	1.9	3468	4	US-09-988-462-2	Sequence 2, Appli	327	34.6	1.8	1017	4	US-09-252-991A-249	Sequence 249, App
255	35.2	1.9	3468	4	US-09-988-462-4	Sequence 4, Appli	c 328	34.6	1.8	1299	4	US-09-253-991A-8119	Sequence 8119, Ap
256	35.2	1.9	3546	1	US-07-951-115A-14	Sequence 14, Appl	329	34.6	1.8	1300	3	US-08-483-533-39	Sequence 39, Appl
257	35.2	1.9	3546	2	US-08-459-448A-14	Sequence 14, Appl	330	34.6	1.8	1300	3	US-09-283-471A-39	Sequence 39, Appl
258	35.2	1.9	3546	3	US-08-459-595A-14	Sequence 14, Appl	331	34.6	1.8	1392	4	US-09-252-991A-8186	Sequence 8186, Ap
259	35.2	1.9	3546	3	US-08-459-504B-14	Sequence 14, Appl	332	34.6	1.8	1415	4	US-09-902-540-5962	Sequence 5962, Ap
260	35.2	1.9	3546	3	US-08-459-444-14	Sequence 14, Appl	333	34.6	1.8	1467	4	US-09-252-991A-8763	Sequence 8763, Ap
261	35.2	1.9	3546	3	US-09-547-422-14	Sequence 14, Appl	334	34.6	1.8	1495	4	US-09-903-540-203	Sequence 203, App
262	35.2	1.9	3546	4	US-09-988-462-14	Sequence 14, Appl	335	34.6	1.8	1524	4	US-09-252-991A-259	Sequence 259, App
263	35.2	1.9	8500	4	US-09-902-540-889	Sequence 889, App	336	34.6	1.8	1680	4	US-09-252-991A-8121	Sequence 8121, Ap
264	35.2	1.9	8854	3	US-09-053-549-1	Sequence 1, Appli	337	34.6	1.8	2089	4	US-09-949-016-5230	Sequence 5230, Ap
265	35.2	1.9	9497	4	US-09-902-540-1054	Sequence 1054, Ap	338	34.6	1.8	2159	3	US-08-286-870A-7	Sequence 7, Appli
266	35.2	1.9	33379	4	US-09-949-016-13861	Sequence 13861, A	339	34.6	1.8	2190	3	US-09-015-188-1	Sequence 1, Appli
267	35.2	1.9	85850	4	US-09-949-016-13424	Sequence 13424, A	c 340	34.6	1.8	2676	4	US-09-252-991A-9024	Sequence 9024, Ap
268	35	1.9	364	4	US-09-621-976-17202	Sequence 17202, A	341	34.6	1.8	4449	4	US-09-799-451-378	Sequence 378, App
269	35	1.9	430	4	US-09-621-976-16656	Sequence 16656, A	342	34.6	1.8	16541	4	US-09-902-540-1165	Sequence 1165, Ap
270	35	1.9	451	3	US-09-370-838-146	Sequence 146, App	c 343	34.6	1.8	22481	3	US-08-367-841A-43	Sequence 43, Appl
271	35	1.9	451	4	US-09-854-133-146	Sequence 146, App	c 344	34.6	1.8	22481	5	PCT-US95-07201-43	Sequence 2, Appli
272	35	1.9	546	4	US-09-902-540-5394	Sequence 5394, Ap	c 345	34.6	1.8	22484	3	US-09-875-223-2	Sequence 2, Appli
273	35	1.9	684	4	US-09-902-540-5588	Sequence 5588, Ap	c 346	34.6	1.8	22484	4	US-09-875-114-2	Sequence 15547, A
274	35	1.9	742	4	US-09-451-739B-3	Sequence 3, Appli	c 347	34.6	1.8	24741	4	US-09-949-016-15547	Sequence 15547, A
275	35	1.9	857	4	US-09-451-739B-4	Sequence 4, Appli	348	34.6	1.8	62636	4	US-09-949-016-15464	Sequence 15464, A
276	35	1.9	1419	4	US-09-902-540-8757	Sequence 8757, Ap	349	34.6	1.8	62636	4	US-09-949-016-15465	Sequence 15465, A
277	35	1.9	1432	4	US-09-902-540-6406	Sequence 6406, Ap	350	34.4	1.8	396	4	US-09-902-540-2821	Sequence 2821, Ap
278	35	1.9	1433	4	US-09-902-540-432	Sequence 432, App	c 351	34.4	1.8	596	4	US-09-902-540-5976	Sequence 5976, Ap
279	35	1.9	1469	5	PCT-US92-08258-1	Sequence 1, Appli	352	34.4	1.8	601	4	US-09-949-016-76256	Sequence 76256, A
280	35	1.9	1488	4	US-09-252-991A-14879	Sequence 14879, A	c 353	34.4	1.8	609	4	US-09-252-991A-11755	Sequence 11755, A
281	35	1.9	1533	4	US-09-451-739B-1	Sequence 1, Appli	354	34.4	1.8	797	3	US-09-183-861-23	Sequence 23, Appl
282	35	1.9	1551	4	US-09-252-991A-15136	Sequence 15136, A	355	34.4	1.8	797	3	US-09-022-765-23	Sequence 23, Appl
283	35	1.9	1734	4	US-09-902-540-3416	Sequence 3416, Ap	356	34.4	1.8	797	4	US-09-551-974A-23	Sequence 23, Appl
284	35	1.9	1839	4	US-09-252-991A-2563	Sequence 2563, Ap	357	34.4	1.8	797	4	US-09-565-501A-23	Sequence 23, Appl
285	35	1.9	2508	4	US-09-758-282B-48	Sequence 48, Appl	358	34.4	1.8	797	4	US-09-639-206A-23	Sequence 23, Appl
286	35	1.9	2508	4	US-09-577-304A-48	Sequence 48, Appl	359	34.4	1.8	797	4	US-09-874-923-23	Sequence 23, Appl
287	35	1.9	2907	4	US-09-252-991A-2354	Sequence 2354, Ap	c 360	34.4	1.8	797	4	US-08-798-841-23	Sequence 23, Appl
288	35	1.9	3517	4	US-08-420-306D-1	Sequence 1, Appli	c 361	34.4	1.8	825	4	US-09-252-991A-5019	Sequence 5019, Ap
289	35	1.9	7704	4	US-09-902-540-743	Sequence 743, App	362	34.4	1.8	960	4	US-09-252-991A-5085	Sequence 5085, Ap
290	35	1.9	9472	4	US-09-902-540-851	Sequence 851, App	363	34.4	1.8	1056	4	US-09-252-991A-10766	Sequence 10766, A
291	35	1.9	9556	4	US-09-902-540-929	Sequence 929, App	364	34.4	1.8	1086	4	US-09-252-991A-11554	Sequence 11554, A
292	35	1.9	34552	4	US-09-902-540-1262	Sequence 1262, App	c 365	34.4	1.8	1128	4	US-09-252-991A-1077	Sequence 1077, Ap
293	35	1.9	41927	4	US-09-902-540-1268	Sequence 1268, Ap	366	34.4	1.8	1191	4	US-09-252-991A-1025	Sequence 1025, Ap
294	34.8	1.9	489	4	US-09-621-976-17952	Sequence 17952, A	c 367	34.4	1.8	1200	4	US-09-252-991A-1033	Sequence 1033, Ap
295	34.8	1.9	537	4	US-09-902-540-9685	Sequence 9685, Ap	368	34.4	1.8	1239	4	US-09-252-991A-10681	Sequence 10681, A
296	34.8	1.9	563	4	US-09-640-211A-230	Sequence 230, App	369	34.4	1.8	1425	4	US-09-252-991A-11513	Sequence 11513, A
297	34.8	1.9	618	4	US-09-252-991A-10379	Sequence 10379, A	370	34.4	1.8	1593	4	US-09-252-991A-3716	Sequence 3716, A
298	34.8	1.9	942	4	US-09-252-991A-10592	Sequence 10592, A	371	34.4	1.8	1645	4	US-09-023-587A-5	Sequence 5, Appli
299	34.8	1.9	1169	4	US-09-902-540-2360	Sequence 2360, Ap	c 372	34.4	1.8	1800	4	US-09-252-991A-3797	Sequence 3797, Ap
300	34.8	1.9	1269	4	US-09-252-991A-9441	Sequence 9441, Ap	373	34.4	1.8	1831	4	US-09-902-540-8907	Sequence 8907, Ap
301	34.8	1.9	1287	4	US-09-252-991A-10262	Sequence 10262, A	c 374	34.4	1.8	1833	4	US-09-252-991A-3838	Sequence 3838, Ap
302	34.8	1.9	1630	4	US-09-949-016-2912	Sequence 2912, Ap	c 375	34.4	1.8	1944	4	US-09-673-198-29	Sequence 29, Appl
303	34.8	1.9	1833	4	US-09-949-016-2214	Sequence 2214, Ap	376	34.4	1.8	2274	4	US-09-252-991A-11609	Sequence 11609, A
304	34.8	1.9	1890	4	US-09-252-991A-9392	Sequence 9392, Ap	c 377	34.4	1.8	2613	4	US-09-252-991A-11836	Sequence 11836, A
305	34.8	1.9	2154	4	US-09-902-540-4557	Sequence 4557, Ap	378	34.4	1.8	2618	4	US-09-857-556A-25	Sequence 25, Appl
306	34.8	1.9	3261	4	US-09-252-991A-8480	Sequence 8480, Ap	c 379	34.4	1.8	3010	4	US-09-949-016-5034	Sequence 5034, Ap
307	34.8	1.9	3345	4	US-09-252-991A-8394	Sequence 8394, Ap	380	34.4	1.8	3114	4	US-09-252-991A-977	Sequence 977, App
308	34.8	1.9	3379	4	US-09-220-132-12	Sequence 12, Appl	381	34.4	1.8	3270	4	US-09-902-540-4814	Sequence 4814, Ap
309	34.8	1.9	3678	4	US-09-252-991A-8447	Sequence 8447, Ap	c 382	34.4	1.8	4326	4	US-09-252-991A-11572	Sequence 11572, A
310	34.8	1.9	3722	4	US-09-016-434-1129	Sequence 1129, Ap	383	34.4	1.8	4473	4	US-09-252-991A-11871	Sequence 11871, A
311	34.8	1.9	3740	4	US-09-949-016-3726	Sequence 3726, Ap	c 384	34.4	1.8	4829	4	US-09-902-540-592	Sequence 592, App
312	34.8	1.9	15447	4	US-09-902-540-1100	Sequence 1100, Ap	385	34.4	1.8	9091	4	US-09-902-540-949	Sequence 949, App
313	34.8	1.9	24905	4	US-09-902-540-1225	Sequence 1225, Ap	c 386	34.4	1.8	10505	4	US-09-902-540-1044	Sequence 1044, Ap
314	34.8	1.9	29771	4	US-09-949-016-12754	Sequence 12754, A	387	34.4	1.8	14570	4	US-09-902-540-1012	Sequence 1012, Ap
315	34.8	1.9	36228	4	US-09-949-016-13956	Sequence 13956, A	c 388	34.4	1.8	15132	4	US-09-902-540-1137	Sequence 1137, Ap
316	34.8	1.9	36228	4	US-09-949-016-12256	Sequence 12256, A	c 389	34.4	1.8	19326	4	US-09-949-016-16776	Sequence 16776, A
317	34.8	1.9	36228	4	US-09-949-016-15468	Sequence 15468, A	c 390	34.4	1.8	29103	4	US-09-902-540-1236	Sequence 1236, Ap
318	34.8	1.9	57320	4	US-09-949-016-13983	Sequence 13983, A	c 391	34.4	1.8	41755	4	US-09-949-016-15728	Sequence 15728, A
319	34.6	1.8	306	3	US-09-147-935A-40	Sequence 40, Appl	c 392	34.4	1.8	68750	3	US-09-335-409-1	Sequence 1, Appli



C 393	34.4	1.8	68750	3	US-09-568-102-1	Sequence 1, Appl	466	34	1.8	2862	4	US-09-252-991A-443	Sequence 443, App
C 394	34.4	1.8	68750	3	US-09-567-960-1	Sequence 1, Appl	C 467	34	1.8	3156	4	US-09-252-991A-418	Sequence 418, App
C 395	34.4	1.8	68750	3	US-09-568-480-1	Sequence 1, Appl	468	34	1.8	3339	4	US-09-423-753-4	Sequence 4, Appl
C 396	34.4	1.8	68750	3	US-09-568-486-1	Sequence 1, Appl	469	34	1.8	3332	4	US-10-101-464A-868	Sequence 868, App
C 397	34.4	1.8	68750	3	US-09-568-879-1	Sequence 1, Appl	470	34	1.8	3978	4	US-09-266-365-19	Sequence 19, Appl
C 398	34.4	1.8	68750	3	US-09-567-899-1	Sequence 1, Appl	C 471	34	1.8	4019	4	US-09-902-540-535	Sequence 535, App
C 399	34.2	1.8	279	4	US-09-252-991A-7634	Sequence 1, Appl	472	34	1.8	5709	4	US-09-949-016-14369	Sequence 14369, A
C 400	34.2	1.8	364	4	US-09-621-976-17202	Sequence 17202, A	473	34	1.8	12249	4	US-09-266-965-74	Sequence 74, Appl
C 401	34.2	1.8	702	4	US-09-252-991A-6791	Sequence 6791, App	474	34	1.8	17593	4	US-09-949-016-12145	Sequence 12145, A
C 402	34.2	1.8	729	4	US-09-140-804-10	Sequence 10, Appl	475	34	1.8	17593	4	US-09-949-016-15734	Sequence 15734, A
C 403	34.2	1.8	729	4	US-09-686-838B-10	Sequence 10, Appl	C 476	34	1.8	17654	4	US-09-902-540-1161	Sequence 1161, App
C 404	34.2	1.8	765	4	US-09-252-991A-6948	Sequence 6948, App	477	34	1.8	18331	4	US-09-266-365-96	Sequence 96, Appl
C 405	34.2	1.8	1011	4	US-09-252-991A-7564	Sequence 7564, App	478	34	1.8	37710	4	US-09-949-016-15761	Sequence 15761, A
C 406	34.2	1.8	1119	3	US-08-987-943C-7	Sequence 2, Appl	479	34	1.8	37712	4	US-09-949-016-12692	Sequence 12692, A
C 407	34.2	1.8	1155	2	US-08-387-943C-7	Sequence 7, Appl	480	33.8	1.8	378	4	US-09-640-211A-1421	Sequence 1421, App
C 408	34.2	1.8	1272	4	US-09-252-991A-7776	Sequence 7776, App	481	33.8	1.8	601	4	US-09-949-016-137725	Sequence 137725, A
C 409	34.2	1.8	1446	4	US-09-252-991A-6746	Sequence 6746, App	482	33.8	1.8	738	4	US-09-252-991A-9456	Sequence 9456, App
C 410	34.2	1.8	1755	3	US-08-987-943-1	Sequence 1, Appl	483	33.8	1.8	816	4	US-09-252-991A-9480	Sequence 9480, App
C 411	34.2	1.8	1755	4	US-09-902-540-3039	Sequence 3039, App	C 484	33.8	1.8	951	4	US-09-902-540-5206	Sequence 5206, App
C 412	34.2	1.8	2194	4	US-09-023-655-668	Sequence 668, App	485	33.8	1.8	1113	4	US-09-902-540-5622	Sequence 5622, App
C 413	34.2	1.8	2576	1	US-08-471-033-35	Sequence 35, Appl	486	33.8	1.8	1137	4	US-09-724-797-39	Sequence 39, Appl
C 414	34.2	1.8	2576	2	US-08-471-044-35	Sequence 35, Appl	C 487	33.8	1.8	1172	4	US-09-311-021-149	Sequence 149, App
C 415	34.2	1.8	2576	2	US-08-463-483A-35	Sequence 35, Appl	C 488	33.8	1.8	1322	4	US-09-902-540-9662	Sequence 9662, App
C 416	34.2	1.8	2576	2	US-08-471-046A-35	Sequence 35, Appl	C 489	33.8	1.8	1554	4	US-09-252-991A-9350	Sequence 9350, App
C 417	34.2	1.8	2576	2	US-08-470-566B-35	Sequence 35, Appl	490	33.8	1.8	1818	4	US-09-475-515-59	Sequence 59, Appl
C 418	34.2	1.8	2576	3	US-08-469-334-35	Sequence 35, Appl	491	33.8	1.8	1818	4	US-09-475-515-61	Sequence 61, Appl
C 419	34.2	1.8	2576	3	US-09-300-529-35	Sequence 35, Appl	492	33.8	1.8	1818	4	US-09-475-515-62	Sequence 62, Appl
C 420	34.2	1.8	2655	1	US-08-471-033-17	Sequence 17, Appl	493	33.8	1.8	1863	4	US-09-475-515-63	Sequence 63, Appl
C 421	34.2	1.8	2655	1	US-08-471-033-26	Sequence 26, Appl	C 494	33.8	1.8	2007	4	US-09-902-540-9461	Sequence 9461, App
C 422	34.2	1.8	2655	2	US-08-471-044-17	Sequence 17, Appl	495	33.8	1.8	2031	4	US-09-475-515-60	Sequence 60, Appl
C 423	34.2	1.8	2655	2	US-08-471-044-26	Sequence 26, Appl	496	33.8	1.8	2112	4	US-09-475-515-56	Sequence 56, Appl
C 424	34.2	1.8	2655	2	US-08-463-483A-17	Sequence 17, Appl	497	33.8	1.8	2112	4	US-09-475-515-57	Sequence 57, Appl
C 425	34.2	1.8	2655	2	US-08-463-483A-26	Sequence 26, Appl	498	33.8	1.8	2181	4	US-09-475-515-58	Sequence 58, Appl
C 426	34.2	1.8	2655	2	US-08-471-046A-17	Sequence 17, Appl	499	33.8	1.8	2340	4	US-09-475-515-57	Sequence 67, Appl
C 427	34.2	1.8	2655	2	US-08-471-046A-26	Sequence 26, Appl	500	33.8	1.8	2385	4	US-09-475-515-65	Sequence 65, Appl
C 428	34.2	1.8	2655	2	US-08-470-566B-17	Sequence 17, Appl	501	33.8	1.8	2553	4	US-09-475-515-66	Sequence 66, Appl
C 429	34.2	1.8	2655	2	US-08-470-566B-26	Sequence 26, Appl	502	33.8	1.8	2634	4	US-09-475-515-64	Sequence 64, Appl
C 430	34.2	1.8	2655	2	US-08-469-334-17	Sequence 17, Appl	503	33.8	1.8	2730	4	US-09-902-540-5705	Sequence 5705, App
C 431	34.2	1.8	2655	2	US-08-469-334-26	Sequence 26, Appl	504	33.8	1.8	3123	4	US-09-902-540-3802	Sequence 3802, App
C 432	34.2	1.8	2655	3	US-09-300-529-17	Sequence 17, Appl	505	33.8	1.8	3123	4	US-07-951-715A-6	Sequence 6, Appl
C 433	34.2	1.8	2655	3	US-09-300-529-26	Sequence 26, Appl	506	33.8	1.8	3624	2	US-08-459-48A-6	Sequence 6, Appl
C 434	34.2	1.8	3061	4	US-09-620-312D-140	Sequence 140, App	507	33.8	1.8	3624	3	US-08-459-504B-6	Sequence 6, Appl
C 435	34.2	1.8	3262	4	US-09-620-312D-139	Sequence 139, App	508	33.8	1.8	3624	3	US-08-459-504B-6	Sequence 6, Appl
C 436	34.2	1.8	4031	1	US-08-471-033-49	Sequence 49, Appl	509	33.8	1.8	3624	3	US-08-459-504B-6	Sequence 6, Appl
C 437	34.2	1.8	4031	2	US-08-471-044-49	Sequence 49, Appl	510	33.8	1.8	3624	3	US-09-053-549-7	Sequence 7, Appl
C 438	34.2	1.8	4031	2	US-08-463-483A-49	Sequence 49, Appl	511	33.8	1.8	3624	3	US-09-547-422-6	Sequence 6, Appl
C 439	34.2	1.8	4031	2	US-08-471-046A-49	Sequence 49, Appl	512	33.8	1.8	3624	3	US-09-988-462-6	Sequence 6, Appl
C 440	34.2	1.8	4031	2	US-08-470-566B-49	Sequence 49, Appl	513	33.8	1.8	3624	4	US-09-902-540-9287	Sequence 9287, App
C 441	34.2	1.8	4031	3	US-09-300-529-49	Sequence 49, Appl	514	33.8	1.8	3780	4	US-09-902-540-9592	Sequence 9592, App
C 442	34.2	1.8	4031	3	US-09-300-529-49	Sequence 49, Appl	515	33.8	1.8	4472	4	US-09-475-515-75	Sequence 75, Appl
C 443	34.2	1.8	5105	4	US-09-902-540-791	Sequence 791, App	516	33.8	1.8	4494	4	US-09-902-540-7532	Sequence 7532, App
C 444	34.2	1.8	10434	4	US-09-949-016-12258	Sequence 12258, A	517	33.8	1.8	4766	4	US-09-475-515-73	Sequence 73, Appl
C 445	34.2	1.8	10435	4	US-09-949-016-14654	Sequence 14654, A	518	33.8	1.8	6908	4	US-09-902-540-733	Sequence 733, App
C 446	34.2	1.8	44377	2	US-08-804-198-1	Sequence 1, Appl	519	33.8	1.8	9567	4	US-09-902-540-1002	Sequence 1002, App
C 447	34.2	1.8	44377	2	US-08-804-198-1	Sequence 1, Appl	520	33.8	1.8	9873	4	US-09-902-540-1037	Sequence 1037, App
C 448	34.2	1.8	462589	4	US-09-949-016-12900	Sequence 12900, A	521	33.8	1.8	11854	4	US-09-902-540-1096	Sequence 1096, App
C 449	34.2	1.8	476044	4	US-09-949-016-12412	Sequence 12412, A	522	33.8	1.8	14555	4	US-09-902-540-1077	Sequence 1077, App
C 450	34	1.8	399	4	US-09-621-976-8976	Sequence 8976, App	523	33.8	1.8	15095	4	US-09-902-540-1095	Sequence 1095, App
C 451	34	1.8	601	4	US-09-949-016-36596	Sequence 36596, App	524	33.8	1.8	15923	4	US-09-902-540-1095	Sequence 1095, App
C 452	34	1.8	601	4	US-09-949-016-142212	Sequence 142212, App	525	33.8	1.8	46902	4	US-09-902-540-13844	Sequence 13844, A
C 453	34	1.8	641	4	US-10-101-464A-290	Sequence 290, App	C 526	33.8	1.8	50725	4	US-09-902-540-1271	Sequence 1271, App
C 454	34	1.8	1101	4	US-09-252-991A-9455	Sequence 9455, App	C 527	33.8	1.8	119981	4	US-09-949-016-13606	Sequence 13606, A
C 455	34	1.8	1203	3	US-09-086-010-1	Sequence 1, Appl	C 528	33.8	1.8	119982	4	US-09-949-016-16369	Sequence 16369, A
C 456	34	1.8	1455	4	US-09-620-312D-885	Sequence 885, App	C 529	33.8	1.8	136917	4	US-09-902-540-1231	Sequence 1231, App
C 457	34	1.8	1551	4	US-09-902-540-6712	Sequence 6712, App	C 530	33.6	1.8	214	4	US-09-023-655-1231	Sequence 1231, App
C 458	34	1.8	1575	4	US-09-489-039A-4426	Sequence 4426, App	C 531	33.6	1.8	477	4	US-09-621-976-1779	Sequence 1779, App
C 459	34	1.8	1596	4	US-09-252-991A-9478	Sequence 9478, App	C 532	33.6	1.8	600	4	US-09-902-540-2429	Sequence 2429, App
C 460	34	1.8	1650	4	US-09-252-991A-9352	Sequence 9352, App	C 533	33.6	1.8	663	4	US-09-252-991A-5078	Sequence 5078, App
C 461	34	1.8	2055	3	US-08-872-855-3	Sequence 3, Appl	C 534	33.6	1.8	702	4	US-09-252-991A-626	Sequence 626, App
C 462	34	1.8	2055	4	US-09-641-612-10	Sequence 10, Appl	C 535	33.6	1.8	762	4	US-09-902-540-4596	Sequence 4596, App
C 463	34	1.8	2592	4	US-09-902-540-3407	Sequence 3407, App	C 536	33.6	1.8	792	4	US-09-724-797-11	Sequence 11, Appl
C 464	34	1.8	2765	4	US-09-949-016-3992	Sequence 3992, App	C 537	33.6	1.8	804	4	US-09-252-991A-5139	Sequence 5139, App
C 465	34	1.8	2800	3	US-08-872-855-1	Sequence 1, Appl	C 538	33.6	1.8	894	4	US-09-252-991A-11338	Sequence 11338, A

539	33.6	1.8	909	4	US-09-252-991A-11955	Sequence 11955, A	612	33.4	1.8	9997	1	US-08-453-265-15	Sequence 15, Appl
c 540	33.6	1.8	1023	4	US-09-252-991A-12057	Sequence 12057, A	c 613	33.4	1.8	17897	4	US-09-902-540-1182	Sequence 1182, Ap
541	33.6	1.8	1335	4	US-09-252-991A-11357	Sequence 11357, A	613	33.4	1.8	19112	4	US-09-902-540-1181	Sequence 1181, Ap
542	33.6	1.8	1350	4	US-09-252-991A-677	Sequence 677, App	615	33.4	1.8	24459	4	US-09-902-540-5004	Sequence 5004, Ap
543	33.6	1.8	1517	4	US-09-902-540-214	Sequence 214, App	c 616	33.4	1.8	32441	4	US-09-902-540-1247	Sequence 1247, App
544	33.6	1.8	1680	4	US-09-252-991A-11917	Sequence 11917, A	c 617	33.4	1.8	36800	4	US-08-311-731A-139	Sequence 139, App
545	33.6	1.8	1716	4	US-09-902-540-9034	Sequence 9034, Ap	c 618	33.4	1.8	49559	4	US-09-949-016-12892	Sequence 12892, A
546	33.6	1.8	1843	1	US-08-774-169-2	Sequence 2, Appli	c 619	33.4	1.8	49559	4	US-09-949-016-17267	Sequence 17267, A
547	33.6	1.8	1860	4	US-09-252-991A-5014	Sequence 5014, Ap	c 620	33.4	1.8	74644	4	US-09-949-016-17556	Sequence 17556, A
548	33.6	1.8	1987	4	US-09-774-528-158	Sequence 158, App	c 621	33.4	1.8	133063	4	US-09-949-016-16293	Sequence 16293, A
549	33.6	1.8	1988	2	US-08-257-963B-11	Sequence 11, Appl	c 622	33.2	1.8	601	4	US-09-949-016-167451	Sequence 167451, A
c 550	33.6	1.8	1988	3	US-08-367-841A-11	Sequence 11, Appl	623	33.2	1.8	702	4	US-09-477-392-48	Sequence 48, Appl
c 551	33.6	1.8	1988	5	PCT-US95-07201-11	Sequence 11, Appl	624	33.2	1.8	990	4	US-09-902-540-7222	Sequence 7222, Ap
552	33.6	1.8	2253	4	US-09-902-540-3708	Sequence 3708, A	625	33.2	1.8	1194	4	US-09-902-540-8211	Sequence 8211, Ap
c 553	33.6	1.8	2385	4	US-09-252-991A-11998	Sequence 11998, A	626	33.2	1.8	1230	4	US-09-902-540-2623	Sequence 2623, Ap
c 554	33.6	1.8	2330	4	US-09-949-016-1740	Sequence 740, App	c 627	33.2	1.8	1368	4	US-09-902-540-9337	Sequence 9337, Ap
c 555	33.6	1.8	4238	4	US-09-252-991A-5711	Sequence 5711, App	c 628	33.2	1.8	1455	4	US-09-252-991A-7678	Sequence 7678, Ap
c 556	33.6	1.8	4941	4	US-09-252-991A-5741	Sequence 5741, Ap	c 629	33.2	1.8	1845	4	US-09-252-991A-7528	Sequence 7528, Ap
c 557	33.6	1.8	5262	3	US-08-520-373D-5	Sequence 5, Appli	c 630	33.2	1.8	1621	4	US-09-949-016-516	Sequence 516, App
558	33.6	1.8	6049	4	US-08-793-273C-3	Sequence 3, Appli	c 631	33.2	1.8	1853	4	US-09-949-016-1012	Sequence 1012, Ap
559	33.6	1.8	6049	5	PCT-US95-11684-3	Sequence 3, Appli	c 632	33.2	1.8	2469	4	US-09-489-039A-1538	Sequence 1538, Ap
560	33.6	1.8	9198	4	US-09-902-540-966	Sequence 966, App	c 633	33.2	1.8	2954	4	US-09-477-392-1	Sequence 1, Appli
c 561	33.6	1.8	12449	4	US-09-949-016-15755	Sequence 15755, A	634	33.2	1.8	3231	1	US-08-195-152-1	Sequence 1, Appli
c 562	33.6	1.8	13234	4	US-09-902-540-986	Sequence 986, App	635	33.2	1.8	3231	4	US-08-754-311B-1	Sequence 1, Appli
c 563	33.6	1.8	14899	4	US-09-902-540-1107	Sequence 1107, Ap	636	33.2	1.8	3342	4	US-09-252-991A-7814	Sequence 7814, Ap
564	33.6	1.8	18031	4	US-09-902-540-1180	Sequence 1180, Ap	637	33.2	1.8	3358	3	US-09-248-571-2	Sequence 2, Appli
565	33.6	1.8	19503	4	US-09-949-016-16528	Sequence 16528, A	638	33.2	1.8	3358	3	US-09-553-736-2	Sequence 2, Appli
566	33.6	1.8	27707	4	US-09-902-540-1226	Sequence 1226, Ap	639	33.2	1.8	4849	4	US-09-620-312D-39	Sequence 39, Appl
c 567	33.6	1.8	134890	4	US-09-949-016-15602	Sequence 15602, A	c 640	33.2	1.8	5418	4	US-09-902-540-675	Sequence 675, App
c 568	33.4	1.8	444	4	US-09-252-991A-1153	Sequence 1153, Ap	641	33.2	1.8	6854	3	US-09-194-905-7	Sequence 7, Appli
569	33.4	1.8	567	4	US-09-252-991A-12435	Sequence 12435, A	642	33.2	1.8	6854	3	US-09-922-683-7	Sequence 7, Appli
570	33.4	1.8	601	4	US-09-949-016-40556	Sequence 40556, A	643	33.2	1.8	8060	4	US-09-902-540-847	Sequence 847, App
571	33.4	1.8	601	4	US-09-949-016-40557	Sequence 40557, A	c 644	33.2	1.8	10486	4	US-09-902-540-997	Sequence 997, App
572	33.4	1.8	601	4	US-09-949-016-194473	Sequence 194473, A	c 645	33.2	1.8	15338	4	US-09-902-540-1121	Sequence 1121, Ap
573	33.4	1.8	601	4	US-09-949-016-194474	Sequence 194474, A	646	33.2	1.8	17331	4	US-09-949-016-14503	Sequence 14503, A
574	33.4	1.8	840	4	US-09-902-540-8736	Sequence 8736, Ap	c 647	33.2	1.8	20400	4	US-09-949-016-12118	Sequence 12118, A
575	33.4	1.8	852	4	US-09-893-737-151	Sequence 151, App	c 648	33.2	1.8	56448	4	US-09-949-016-16463	Sequence 16463, A
576	33.4	1.8	852	4	US-09-893-737-297	Sequence 297, App	c 649	33.2	1.8	158735	4	US-09-949-016-11989	Sequence 11989, A
c 577	33.4	1.8	936	4	US-09-902-540-3745	Sequence 3745, Ap	c 650	33.2	1.8	158735	4	US-09-949-016-17130	Sequence 17130, A
c 578	33.4	1.8	948	4	US-09-902-540-7072	Sequence 7072, Ap	c 651	33	1.8	449	3	US-09-370-838-9	Sequence 9, Appli
579	33.4	1.8	975	4	US-09-252-991A-1605	Sequence 1605, Ap	c 652	33	1.8	449	4	US-09-854-133-9	Sequence 9, Appli
c 580	33.4	1.8	987	4	US-09-498-520A-19	Sequence 19, Appl	c 653	33	1.8	509	4	US-09-602-565-7	Sequence 7, Appli
c 581	33.4	1.8	1056	4	US-09-252-991A-1419	Sequence 1419, Ap	c 654	33	1.8	1076	4	US-09-690-454-17	Sequence 17, Appl
582	33.4	1.8	1089	4	US-09-252-991A-1313	Sequence 1313, Ap	c 655	33	1.8	1089	1	US-08-154-915-1	Sequence 1, Appli
c 583	33.4	1.8	1116	4	US-09-252-991A-13222	Sequence 13222, A	c 656	33	1.8	1089	2	US-08-464-517-37	Sequence 37, Appl
584	33.4	1.8	1263	4	US-09-724-797-94	Sequence 94, Appl	c 657	33	1.8	1089	2	US-08-246-361A-37	Sequence 37, Appl
585	33.4	1.8	1323	4	US-09-252-991A-6983	Sequence 6983, Ap	c 658	33	1.8	1089	3	US-08-463-772-37	Sequence 37, Appl
c 586	33.4	1.8	1455	4	US-09-902-540-6464	Sequence 6464, Ap	c 659	33	1.8	1089	5	PCT-US93-09945-1	Sequence 1, Appli
c 587	33.4	1.8	1593	4	US-09-252-991A-1519	Sequence 1519, Ap	c 660	33	1.8	1161	4	US-09-902-540-4538	Sequence 4538, Ap
c 588	33.4	1.8	1659	3	US-09-083-351-3	Sequence 3, Appli	c 661	33	1.8	1245	4	US-09-252-991A-11324	Sequence 11324, A
589	33.4	1.8	1659	3	US-09-083-352-3	Sequence 3, Appli	c 662	33	1.8	1278	4	US-09-902-540-7456	Sequence 7456, Ap
590	33.4	1.8	1662	4	US-09-612-809B-3	Sequence 3, Appli	c 663	33	1.8	1390	4	US-09-602-565-2	Sequence 2, Appli
c 591	33.4	1.8	1761	4	US-09-902-540-3727	Sequence 3727, Ap	c 664	33	1.8	1390	4	US-09-774-528-115	Sequence 115, App
c 592	33.4	1.8	1969	1	US-07-737-851-3	Sequence 3, Appli	c 665	33	1.8	1470	4	US-09-252-991A-11286	Sequence 11286, A
593	33.4	1.8	1969	3	US-07-894-062-3	Sequence 3, Appli	c 666	33	1.8	1774	4	US-09-489-847-17	Sequence 17, Appl
c 594	33.4	1.8	1969	3	US-09-096-562-3	Sequence 3, Appli	c 667	33	1.8	1896	4	US-09-252-991A-11331	Sequence 11331, A
595	33.4	1.8	2406	4	US-09-252-991A-1657	Sequence 1657, Ap	c 668	33	1.8	2274	4	US-09-949-016-5060	Sequence 5060, Ap
596	33.4	1.8	2508	4	US-09-758-282B-242	Sequence 242, App	c 669	33	1.8	2440	3	US-09-513-007-1	Sequence 1, Appli
597	33.4	1.8	2508	4	US-09-577-304A-242	Sequence 242, App	c 670	33	1.8	4631	4	US-09-902-540-720	Sequence 720, App
c 598	33.4	1.8	2669	4	US-09-799-451-545	Sequence 545, App	c 671	33	1.8	4692	2	US-08-916-917-1	Sequence 1, Appli
599	33.4	1.8	2712	4	US-09-902-540-454	Sequence 454, App	c 672	33	1.8	4692	2	US-08-972-631-1	Sequence 1, Appli
600	33.4	1.8	2742	4	US-09-252-991A-5556	Sequence 5556, Ap	c 673	33	1.8	4692	2	US-08-972-629-1	Sequence 1, Appli
601	33.4	1.8	2910	4	US-09-252-991A-7009	Sequence 7009, Ap	c 674	33	1.8	4692	2	US-08-972-630-1	Sequence 1, Appli
c 602	33.4	1.8	3186	4	US-09-252-991A-7120	Sequence 7120, Ap	c 675	33	1.8	4692	2	US-08-672-211-1	Sequence 1, Appli
c 603	33.4	1.8	3321	4	US-09-252-991A-5668	Sequence 5668, Ap	c 676	33	1.8	4692	3	US-09-225-170-1	Sequence 1, Appli
c 604	33.4	1.8	3946	3	US-09-083-351-1	Sequence 1, Appli	c 677	33	1.8	5904	1	US-07-745-206A-6	Sequence 6, Appli
605	33.4	1.8	3946	3	US-09-083-352-1	Sequence 1, Appli	c 678	33	1.8	5904	1	US-08-455-543A-3	Sequence 3, Appli
606	33.4	1.8	3981	4	US-09-252-991A-1361	Sequence 1361, Ap	c 679	33	1.8	5904	2	US-08-193-078B-3	Sequence 3, Appli
c 607	33.4	1.8	4179	4	US-09-252-991A-1244	Sequence 1244, Ap	c 680	33	1.8	5904	2	US-08-223-305C-3	Sequence 3, Appli
c 608	33.4	1.8	4771	3	US-08-840-062-3	Sequence 3, Appli	c 681	33	1.8	5904	2	US-08-149-097D-3	Sequence 3, Appli
c 609	33.4	1.8	6037	4	US-09-902-540-631	Sequence 631, App	c 682	33	1.8	5904	2	US-08-311-363-6	Sequence 6, Appli
610	33.4	1.8	8532	4	US-09-902-540-927	Sequence 927, App	c 683	33	1.8	6047	4	US-09-902-540-758	Sequence 758, App
611	33.4	1.8	9997	1	US-08-246-982A-15	Sequence 15, Appl	c 684	33	1.8	6575	3	US-08-949-386-3	Sequence 3, Appli

685	33	1.8	6575	3	US-08-450-562-3	Sequence 3, Appli	758	32.8	1.7	1904	4	US-09-949-016-1334	Sequence 1334, Ap
686	33	1.8	6575	3	US-08-984-709A-3	Sequence 3, Appli	c	32.8	1.7	1920	4	US-09-252-991A-8999	Sequence 8999, Ap
687	33	1.8	6575	3	US-08-450-272-3	Sequence 3, Appli	760	32.8	1.7	2078	2	US-08-785-110A-1	Sequence 1, Appli
688	33	1.8	6575	4	US-08-450-273-3	Sequence 3, Appli	761	32.8	1.7	2097	4	US-09-595-684B-34	Sequence 34, Appl
689	33	1.8	11766	4	US-09-949-016-13531	Sequence 12531, A	762	32.8	1.7	2099	4	US-09-949-016-2913	Sequence 2913, Ap
690	33	1.8	11770	4	US-09-949-016-12720	Sequence 12720, A	763	32.8	1.7	2511	4	US-09-252-991A-9494	Sequence 9494, Ap
691	33	1.8	11770	4	US-09-949-016-13487	Sequence 13487, A	764	32.8	1.7	2583	4	US-09-252-991A-9541	Sequence 9541, Ap
692	33	1.8	11770	4	US-09-949-016-13488	Sequence 13488, A	765	32.8	1.7	2712	4	US-09-252-991A-1366	Sequence 1366, Ap
693	33	1.8	25497	4	US-09-902-540-1224	Sequence 1224, Ap	c	32.8	1.7	2766	4	US-09-252-991A-3756	Sequence 3756, Ap
694	33	1.8	27219	4	US-09-902-540-1244	Sequence 1244, Ap	767	32.8	1.7	2817	4	US-09-252-991A-7311	Sequence 7311, Ap
695	33	1.8	28509	4	US-09-902-540-1240	Sequence 1240, Ap	768	32.8	1.7	2851	3	US-09-535-521-1	Sequence 1, Appli
696	33	1.8	34312	4	US-09-949-016-12352	Sequence 12352, A	c	32.8	1.7	2851	3	US-09-535-521-3	Sequence 3, Appli
697	33	1.8	61399	4	US-09-949-016-14386	Sequence 14386, A	c	32.8	1.7	2862	4	US-09-902-540-7749	Sequence 7749, Ap
698	33	1.8	92344	4	US-09-949-016-14387	Sequence 14387, A	c	32.8	1.7	2862	4	US-09-252-991A-3837	Sequence 3837, Ap
699	32.8	1.7	369	3	US-09-535-521-24	Sequence 24, Appl	c	32.8	1.7	2874	4	US-09-252-991A-7187	Sequence 7187, Ap
700	32.8	1.7	384	3	US-09-535-521-26	Sequence 26, Appl	c	32.8	1.7	2880	4	US-09-902-540-5065	Sequence 5065, Ap
701	32.8	1.7	384	3	US-09-535-521-7	Sequence 7, Appli	773	32.8	1.7	3099	4	US-09-902-540-1944	Sequence 1944, Ap
702	32.8	1.7	384	3	US-09-535-521-9	Sequence 9, Appli	774	32.8	1.7	3447	4	US-09-949-016-1944	Sequence 1944, Ap
703	32.8	1.7	417	3	US-09-535-521-10	Sequence 10, Appl	775	32.8	1.7	3592	2	US-08-469-537A-100	Sequence 100, App
704	32.8	1.7	417	3	US-09-535-521-12	Sequence 12, Appl	776	32.8	1.7	3957	1	US-07-689-008-5	Sequence 5, Appli
705	32.8	1.7	423	3	US-09-535-521-13	Sequence 13, Appl	777	32.8	1.7	4139	4	US-09-620-312D-349	Sequence 349, App
706	32.8	1.7	423	3	US-09-535-521-15	Sequence 15, Appl	778	32.8	1.7	4148	4	US-09-902-540-578	Sequence 578, App
707	32.8	1.7	491	3	US-09-189-060B-17	Sequence 17, Appl	c	32.8	1.7	4493	4	US-09-949-016-14034	Sequence 14034, A
708	32.8	1.7	492	4	US-09-949-016-2292	Sequence 2292, Ap	c	32.8	1.7	5276	4	US-09-233-857-2	Sequence 2, Appli
709	32.8	1.7	495	4	US-09-252-991A-7246	Sequence 7246, Ap	c	32.8	1.7	5276	4	US-09-902-540-769	Sequence 769, App
710	32.8	1.7	561	3	US-09-535-521-16	Sequence 16, Appl	782	32.8	1.7	7295	4	US-09-902-540-924	Sequence 924, App
711	32.8	1.7	561	3	US-09-535-521-18	Sequence 18, Appl	c	32.8	1.7	7295	4	US-07-689-008-1	Sequence 1, Appli
712	32.8	1.7	601	4	US-09-949-016-79723	Sequence 79723, A	783	32.8	1.7	10023	4	US-09-252-991A-6997	Sequence 6997, Ap
713	32.8	1.7	601	4	US-09-949-016-79724	Sequence 79724, A	784	32.8	1.7	12250	4	US-09-949-016-17580	Sequence 17580, A
714	32.8	1.7	601	4	US-09-949-016-79727	Sequence 79727, A	785	32.8	1.7	12502	4	US-09-902-540-1086	Sequence 1086, Ap
715	32.8	1.7	601	4	US-09-949-016-177678	Sequence 177678, A	c	32.8	1.7	15179	4	US-09-902-540-1104	Sequence 1104, Ap
716	32.8	1.7	601	4	US-09-949-016-206495	Sequence 206495, A	787	32.8	1.7	15209	4	US-09-902-540-1174	Sequence 1174, Ap
717	32.8	1.7	624	3	US-09-535-521-19	Sequence 19, Appl	788	32.8	1.7	18848	4	US-09-902-540-1150	Sequence 1150, Ap
718	32.8	1.7	624	3	US-09-535-521-21	Sequence 21, Appl	789	32.8	1.7	19954	4	US-09-902-540-1150	Sequence 1208, Ap
719	32.8	1.7	663	4	US-09-902-540-3631	Sequence 3631, Ap	790	32.8	1.7	22301	4	US-09-902-540-1208	Sequence 1208, Ap
720	32.8	1.7	693	4	US-09-252-991A-7308	Sequence 7308, Ap	791	32.8	1.7	28054	4	US-09-902-540-1248	Sequence 1248, Ap
721	32.8	1.7	876	3	US-09-535-521-4	Sequence 4, Appli	c	32.8	1.7	28194	4	US-09-902-540-1250	Sequence 1250, Ap
722	32.8	1.7	876	3	US-09-535-521-6	Sequence 6, Appli	793	32.8	1.7	28438	4	US-09-820-790B-3	Sequence 3, Appli
723	32.8	1.7	897	4	US-09-434-354-3	Sequence 3, Appli	794	32.8	1.7	34094	4	US-09-252-034-1	Sequence 1, Appli
724	32.8	1.7	897	4	US-09-709-785-3	Sequence 3, Appli	795	32.8	1.7	40168	4	US-09-949-016-13225	Sequence 13225, A
725	32.8	1.7	900	4	US-09-252-991A-5764	Sequence 5764, Ap	c	32.8	1.7	4317	4	US-09-949-016-16821	Sequence 16821, A
726	32.8	1.7	987	4	US-09-252-991A-5398	Sequence 5398, Ap	797	32.8	1.7	53500	4	US-09-266-965-76	Sequence 76, Appl
727	32.8	1.7	1008	4	US-09-252-991A-7103	Sequence 7103, Ap	c	32.8	1.7	77772	4	US-09-949-016-17417	Sequence 17417, A
728	32.8	1.7	1029	4	US-09-902-540-6857	Sequence 6857, Ap	c	32.8	1.7	77997	4	US-09-949-016-12249	Sequence 12249, A
729	32.8	1.7	1041	4	US-09-902-540-4179	Sequence 4179, Ap	799	32.8	1.7	106450	4	US-09-949-016-13873	Sequence 13873, A
730	32.8	1.7	1065	4	US-09-902-540-2395	Sequence 2395, Ap	800	32.8	1.7	153642	4	US-09-949-016-12174	Sequence 12174, A
731	32.8	1.7	1080	4	US-09-831-228-1	Sequence 1, Appli	c	32.8	1.7	153643	4	US-09-949-016-15635	Sequence 15635, A
732	32.8	1.7	1143	4	US-09-252-991A-5748	Sequence 5748, Ap	802	32.8	1.7	187916	4	US-09-949-016-12980	Sequence 12980, A
733	32.8	1.7	1164	4	US-09-252-991A-5391	Sequence 5391, Ap	c	32.6	1.7	435	4	US-09-252-991A-9379	Sequence 9379, Ap
734	32.8	1.7	1194	4	US-09-252-991A-7454	Sequence 7454, Ap	c	32.6	1.7	439	4	US-09-621-376-14143	Sequence 14143, A
735	32.8	1.7	1209	4	US-09-826-509-556	Sequence 556, App	c	32.6	1.7	601	4	US-09-949-016-121668	Sequence 121668, A
736	32.8	1.7	1212	4	US-09-620-312D-687	Sequence 687, App	c	32.6	1.7	615	4	US-09-489-039A-6321	Sequence 6321, Ap
737	32.8	1.7	1242	4	US-09-252-991A-9668	Sequence 9668, Ap	c	32.6	1.7	657	4	US-09-252-991A-6701	Sequence 6701, Ap
738	32.8	1.7	1263	4	US-09-252-991A-7050	Sequence 7050, Ap	c	32.6	1.7	671	4	US-09-952-060-9	Sequence 9, Appli
739	32.8	1.7	1376	4	US-09-016-434-1361	Sequence 1361, Ap	809	32.6	1.7	671	4	US-09-952-060-13	Sequence 13, Appl
740	32.8	1.7	1380	4	US-09-902-540-3259	Sequence 3259, Ap	c	32.6	1.7	719	4	US-09-952-060-11	Sequence 11, Appl
741	32.8	1.7	1394	2	US-08-068-729-3	Sequence 3, Appli	810	32.6	1.7	720	4	US-09-952-060-15	Sequence 15, Appl
742	32.8	1.7	1394	3	US-09-255-671-3	Sequence 3, Appli	c	32.6	1.7	831	4	US-09-902-540-9552	Sequence 9552, Ap
743	32.8	1.7	1394	3	US-09-395-366-3	Sequence 3, Appli	811	32.6	1.7	860	4	US-09-270-767-11964	Sequence 11964, A
744	32.8	1.7	1410	4	US-09-252-991A-1239	Sequence 1239, Ap	c	32.6	1.7	1083	4	US-09-252-991A-9481	Sequence 9481, A
745	32.8	1.7	1431	4	US-09-252-991A-1316	Sequence 1316, Ap	815	32.6	1.7	1092	4	US-09-252-991A-6628	Sequence 6628, Ap
746	32.8	1.7	1434	4	US-09-902-540-8720	Sequence 8720, Ap	816	32.6	1.7	1092	4	US-09-252-991A-6628	Sequence 6628, Ap
747	32.8	1.7	1464	3	US-09-724-224-7	Sequence 7, Appli	817	32.6	1.7	1095	4	US-09-252-991A-6628	Sequence 6628, Ap
748	32.8	1.7	1464	4	US-10-093-317-7	Sequence 7, Appli	818	32.6	1.7	1296	4	US-09-252-991A-2364	Sequence 2364, Ap
749	32.8	1.7	1538	3	US-09-724-224-3	Sequence 3, Appli	c	32.6	1.7	1332	1	US-08-660-765A-3	Sequence 3, Appli
750	32.8	1.7	1538	3	US-10-093-317-3	Sequence 3, Appli	820	32.6	1.7	1344	4	US-09-252-991A-5239	Sequence 5239, Ap
751	32.8	1.7	1608	4	US-09-252-991A-9091	Sequence 9091, Ap	c	32.6	1.7	1408	4	US-09-566-921-59	Sequence 59, Appl
752	32.8	1.7	1650	4	US-09-252-991A-3625	Sequence 3625, Ap	c	32.6	1.7	1521	4	US-09-252-991A-2550	Sequence 2550, Ap
753	32.8	1.7	1683	4	US-09-252-991A-5403	Sequence 5403, Ap	822	32.6	1.7	1653	4	US-09-489-039A-6798	Sequence 6798, Ap
754	32.8	1.7	1710	4	US-09-252-991A-9011	Sequence 9011, Ap	c	32.6	1.7	1674	4	US-09-489-039A-6624	Sequence 6624, A
755	32.8	1.7	1800	4	US-09-252-991A-3891	Sequence 3891, Ap	825	32.6	1.7	1716	4	US-09-270-767-11940	Sequence 11940, A
756	32.8	1.7	1824	4	US-09-252-991A-4025	Sequence 4025, Ap	c	32.6	1.7	1791	4	US-09-252-991A-5181	Sequence 5181, Ap
757	32.8	1.7	1875	4	US-09-252-991A-3919	Sequence 3919, Ap	827	32.6	1.7	1821	4	US-09-266-965-82	Sequence 82, Appl
							828	32.6	1.7	1854	4	US-09-902-540-7083	Sequence 7083, Ap
							c	32.6	1.7	2082	4	US-09-818-760-67	Sequence 67, Appl
							830	32.6	1.7	2296	4	US-09-949-016-3829	Sequence 3829, Ap

c 831	32.6	1.7	2523	4	US-09-902-540-6428	Sequence 6428, Ap	c 904	32.4	1.7	1821	4	US-09-252-991A-5692	Sequence 5692, Ap
c 832	32.6	1.7	2525	4	US-09-902-540-441	Sequence 441, App	c 905	32.4	1.7	1821	4	US-09-902-540-7500	Sequence 7500, Ap
c 833	32.6	1.7	2547	4	US-09-252-991A-5294	Sequence 5294, Ap	c 906	32.4	1.7	1842	4	US-09-902-540-346	Sequence 346, App
c 834	32.6	1.7	2673	4	US-09-902-540-4830	Sequence 4830, Ap	c 907	32.4	1.7	2298	4	US-09-902-540-2433	Sequence 2433, Ap
c 835	32.6	1.7	2775	4	US-09-252-991A-6637	Sequence 6637, Ap	c 908	32.4	1.7	2380	4	US-09-747-259-13	Sequence 13, Appl
c 836	32.6	1.7	2903	4	US-09-799-451-871	Sequence 871, App	c 909	32.4	1.7	2416	4	US-09-016-434-1058	Sequence 1058, Ap
c 837	32.6	1.7	3084	4	US-09-252-991A-6639	Sequence 6639, Ap	c 910	32.4	1.7	2469	4	US-09-252-991A-5349	Sequence 5349, Ap
c 838	32.6	1.7	3135	4	US-09-252-991A-2282	Sequence 2282, Ap	c 911	32.4	1.7	2595	4	US-09-810-268-2	Sequence 2, Appli
c 839	32.6	1.7	3186	2	US-08-761-258-8	Sequence 8, Appli	c 912	32.4	1.7	2610	4	US-09-252-991A-5719	Sequence 5719, Ap
c 840	32.6	1.7	3186	2	US-08-977-306-8	Sequence 8, Appli	c 913	32.4	1.7	2608	3	US-08-870-126-7	Sequence 7, Appli
c 841	32.6	1.7	3273	4	US-09-252-991A-6578	Sequence 6578, Ap	c 914	32.4	1.7	2808	3	US-09-445-247-7	Sequence 7, Appli
c 842	32.6	1.7	3368	4	US-09-620-3120-369	Sequence 369, App	c 915	32.4	1.7	3007	4	US-09-810-268-1	Sequence 1, Appli
c 843	32.6	1.7	3603	4	US-09-902-540-3266	Sequence 3266, Ap	c 916	32.4	1.7	3167	4	US-09-344-510B-6	Sequence 6, Appli
c 844	32.6	1.7	3810	4	US-09-252-991A-6579	Sequence 6579, Ap	c 917	32.4	1.7	3335	4	US-09-949-016-1392	Sequence 1392, Ap
c 845	32.6	1.7	4231	4	US-09-902-540-633	Sequence 633, App	c 918	32.4	1.7	3435	4	US-09-344-510B-7	Sequence 7, Appli
c 846	32.6	1.7	7286	4	US-08-793-273C-1	Sequence 1, Appli	c 919	32.4	1.7	5040	4	US-09-902-540-727	Sequence 727, App
c 847	32.6	1.7	7286	5	PCT-US95-1168A-1	Sequence 1, Appli	c 920	32.4	1.7	5103	4	US-09-252-991A-5192	Sequence 5192, Ap
c 848	32.6	1.7	18034	4	US-09-286-365-75	Sequence 75, Appli	c 921	32.4	1.7	6855	4	US-09-252-991A-6976	Sequence 6976, Ap
c 849	32.6	1.7	19954	4	US-09-902-540-1150	Sequence 1150, Ap	c 922	32.4	1.7	6876	4	US-09-252-991A-5283	Sequence 5283, Ap
c 850	32.6	1.7	24707	4	US-09-740-027-3	Sequence 3, Appli	c 923	32.4	1.7	11604	3	US-09-385-028-13	Sequence 13, Appl
c 851	32.6	1.7	24720	4	US-09-949-016-12341	Sequence 12341, A	c 924	32.4	1.7	11604	4	US-09-726-614-13	Sequence 13, Appl
c 852	32.6	1.7	24721	4	US-09-949-016-15610	Sequence 15610, A	c 925	32.4	1.7	11604	4	US-09-385-040-13	Sequence 13, Appl
c 853	32.6	1.7	26659	4	US-09-902-540-1237	Sequence 1237, Ap	c 926	32.4	1.7	14382	4	US-09-902-540-1145	Sequence 1145, Ap
c 854	32.6	1.7	26967	4	US-09-949-016-12926	Sequence 12926, A	c 927	32.4	1.7	15079	3	US-09-385-028-1	Sequence 1, Appli
c 855	32.6	1.7	31111	4	US-09-949-016-15628	Sequence 15628, A	c 928	32.4	1.7	15079	4	US-09-726-614-1	Sequence 1, Appli
c 856	32.6	1.7	32495	4	US-09-949-016-14952	Sequence 14952, A	c 929	32.4	1.7	15120	4	US-09-385-040-1	Sequence 1, Appli
c 857	32.6	1.7	36620	4	US-09-952-060-30	Sequence 30, Appli	c 930	32.4	1.7	15572	4	US-09-424-783-1	Sequence 1, Appli
c 858	32.6	1.7	49377	1	US-08-764-233A-1	Sequence 1, Appli	c 931	32.4	1.7	15742	4	US-09-949-016-13762	Sequence 13762, A
c 859	32.6	1.7	60930	4	US-09-949-016-14080	Sequence 14080, A	c 932	32.4	1.7	17352	4	US-09-949-016-12990	Sequence 12990, A
c 860	32.6	1.7	79221	4	US-09-949-016-12755	Sequence 12755, A	c 933	32.4	1.7	18469	4	US-09-902-540-1205	Sequence 1205, A
c 861	32.6	1.7	152393	4	US-09-949-016-14514	Sequence 14514, A	c 934	32.4	1.7	18686	4	US-09-902-540-1206	Sequence 1206, Ap
c 862	32.6	1.7	152393	4	US-09-949-016-14515	Sequence 14515, A	c 935	32.4	1.7	19726	4	US-09-902-540-1164	Sequence 1164, Ap
c 863	32.6	1.7	156894	4	US-09-949-016-12765	Sequence 12765, A	c 936	32.4	1.7	20721	4	US-09-949-016-16257	Sequence 16257, A
c 864	32.6	1.7	156894	4	US-09-949-016-12766	Sequence 12766, A	c 937	32.4	1.7	25497	4	US-09-902-540-1224	Sequence 1224, Ap
c 865	32.6	1.7	156895	4	US-09-949-016-16957	Sequence 16957, A	c 938	32.4	1.7	28533	4	US-09-902-540-1199	Sequence 1199, Ap
c 866	32.6	1.7	156895	4	US-09-949-016-16958	Sequence 16958, A	c 939	32.4	1.7	30001	1	US-08-125-468-1	Sequence 1, Appli
c 867	32.6	1.7	156895	4	US-09-949-016-16959	Sequence 16959, A	c 940	32.4	1.7	30001	2	US-08-474-933-1	Sequence 1, Appli
c 868	32.4	1.7	356	3	US-08-483-533-19	Sequence 19, Appli	c 941	32.4	1.7	31467	4	US-09-949-016-13134	Sequence 13134, A
c 869	32.4	1.7	356	3	US-08-283-471A-19	Sequence 19, Appli	c 942	32.4	1.7	31467	4	US-09-949-016-11907	Sequence 11907, A
c 870	32.4	1.7	415	4	US-09-621-976-17487	Sequence 17487, A	c 943	32.4	1.7	41170	4	US-09-902-540-1267	Sequence 1267, Ap
c 871	32.4	1.7	423	4	US-09-252-991A-1007	Sequence 1007, Ap	c 944	32.4	1.7	85854	4	US-09-949-016-12908	Sequence 12908, A
c 872	32.4	1.7	432	4	US-09-252-991A-11821	Sequence 11821, A	c 945	32.2	1.7	333	4	US-09-252-991A-13699	Sequence 13699, A
c 873	32.4	1.7	468	4	US-09-252-991A-5734	Sequence 5734, Ap	c 946	32.2	1.7	441	4	US-09-252-991A-6383	Sequence 6383, Ap
c 874	32.4	1.7	513	4	US-09-621-976-1776	Sequence 1776, Ap	c 947	32.2	1.7	465	3	US-09-370-838-229	Sequence 229, App
c 875	32.4	1.7	591	4	US-09-252-991A-1085	Sequence 1085, Ap	c 948	32.2	1.7	465	4	US-09-854-133-229	Sequence 229, App
c 876	32.4	1.7	601	4	US-09-949-016-38672	Sequence 38672, A	c 949	32.2	1.7	484	4	US-09-621-976-35	Sequence 35, Appl
c 877	32.4	1.7	601	4	US-09-949-016-38673	Sequence 38673, A	c 950	32.2	1.7	570	4	US-09-016-434-789	Sequence 789, App
c 878	32.4	1.7	601	4	US-09-949-016-68668	Sequence 68668, A	c 951	32.2	1.7	594	4	US-09-902-540-8315	Sequence 8315, Ap
c 879	32.4	1.7	601	4	US-09-949-016-68669	Sequence 68669, A	c 952	32.2	1.7	601	4	US-09-949-016-33019	Sequence 33019, A
c 880	32.4	1.7	601	4	US-09-949-016-71273	Sequence 71273, A	c 953	32.2	1.7	601	4	US-09-949-016-69202	Sequence 69202, A
c 881	32.4	1.7	744	3	US-09-385-028-22	Sequence 22, Appli	c 954	32.2	1.7	601	4	US-09-949-016-94787	Sequence 94787, A
c 882	32.4	1.7	744	4	US-09-726-614-22	Sequence 22, Appli	c 955	32.2	1.7	601	4	US-09-949-016-167452	Sequence 167452, A
c 883	32.4	1.7	744	4	US-09-385-040-22	Sequence 22, Appli	c 956	32.2	1.7	603	4	US-09-252-991A-6165	Sequence 6165, Ap
c 884	32.4	1.7	879	4	US-09-902-540-4552	Sequence 4552, Ap	c 957	32.2	1.7	669	4	US-09-902-540-7278	Sequence 7278, Ap
c 885	32.4	1.7	888	4	US-09-302-540-6257	Sequence 6257, Ap	c 958	32.2	1.7	798	4	US-09-252-991A-11152	Sequence 11152, A
c 886	32.4	1.7	978	4	US-09-902-540-4154	Sequence 4154, Ap	c 959	32.2	1.7	858	3	US-08-998-416-516	Sequence 516, App
c 887	32.4	1.7	1020	4	US-08-586-664-2	Sequence 2, Appli	c 960	32.2	1.7	957	4	US-09-252-991A-9229	Sequence 9229, Ap
c 888	32.4	1.7	1044	4	US-09-902-540-3178	Sequence 3178, Ap	c 961	32.2	1.7	1017	3	US-09-345-488-2	Sequence 2, Appli
c 889	32.4	1.7	1195	3	US-09-072-596-336	Sequence 336, App	c 962	32.2	1.7	1017	3	US-09-414-453A-2	Sequence 2, Appli
c 890	32.4	1.7	1195	4	US-09-072-967-341	Sequence 341, App	c 963	32.2	1.7	1023	4	US-09-902-540-4565	Sequence 4565, Ap
c 891	32.4	1.7	1257	4	US-09-902-540-5554	Sequence 5554, Ap	c 964	32.2	1.7	1122	4	US-09-252-991A-3305	Sequence 3305, Ap
c 892	32.4	1.7	1353	4	US-09-252-991A-11563	Sequence 11563, A	c 965	32.2	1.7	1143	2	US-08-387-942C-19	Sequence 19, Appl
c 893	32.4	1.7	1392	4	US-09-902-540-3448	Sequence 3448, Ap	c 966	32.2	1.7	1156	4	US-09-799-451-416	Sequence 416, App
c 894	32.4	1.7	1416	4	US-09-252-991A-11499	Sequence 11499, A	c 967	32.2	1.7	1176	4	US-09-902-540-3067	Sequence 3067, Ap
c 895	32.4	1.7	1431	4	US-09-252-991A-11886	Sequence 11886, A	c 968	32.2	1.7	1182	4	US-09-252-991A-9062	Sequence 9062, Ap
c 896	32.4	1.7	1446	4	US-09-949-016-694	Sequence 694, App	c 969	32.2	1.7	1209	4	US-09-252-991A-8718	Sequence 8718, Ap
c 897	32.4	1.7	1455	4	US-09-949-016-3899	Sequence 3899, Ap	c 970	32.2	1.7	1242	4	US-09-902-540-9670	Sequence 9670, Ap
c 898	32.4	1.7	1461	4	US-09-398-522-113	Sequence 113, App	c 971	32.2	1.7	1317	4	US-09-902-540-5750	Sequence 5750, Ap
c 899	32.4	1.7	1509	4	US-09-252-991A-7072	Sequence 7072, Ap	c 972	32.2	1.7	1323	4	US-09-252-991A-7602	Sequence 7602, Ap
c 900	32.4	1.7	1515	4	US-09-252-991A-5720	Sequence 5720, Ap	c 973	32.2	1.7	1392	3	US-08-957-063-5	Sequence 5, Appli
c 901	32.4	1.7	1524	4	US-09-252-991A-7027	Sequence 7027, Ap	c 974	32.2	1.7	1392	3	US-09-487-685-5	Sequence 5, Appli
c 902	32.4	1.7	1572	4	US-09-252-991A-4553	Sequence 4553, Ap	c 975	32.2	1.7	1392	3	US-08-802-805D-5	Sequence 5, Appli
c 903	32.4	1.7	1686	4	US-09-252-991A-4299	Sequence 4299, Ap	c 976	32.2	1.7	1392	4	US-09-388-316C-5	Sequence 5, Appli

977	32.2	1.7	1479	4	US-09-252-991A-10839	Sequence 10839, A	1050	32	1.7	462	4	US-09-902-540-7584	Sequence 7584, A
978	32.2	1.7	1650	4	US-09-902-540-4953	Sequence 4953, A	1051	32	1.7	483	4	US-09-902-540-1856	Sequence 1856, A
979	32.2	1.7	1659	4	US-09-252-991A-6465	Sequence 6465, A	1052	32	1.7	510	4	US-09-252-991A-15448	Sequence 15448, A
C 980	32.2	1.7	1668	4	US-09-252-991A-10888	Sequence 10888, A	C1053	32	1.7	601	4	US-09-949-016-161238	Sequence 161238, A
981	32.2	1.7	1794	4	US-09-252-991A-7681	Sequence 7681, A	C1054	32	1.7	601	4	US-09-949-016-178696	Sequence 178696, A
982	32.2	1.7	1848	4	US-09-252-991A-10829	Sequence 10829, A	1055	32	1.7	601	4	US-09-949-016-201547	Sequence 201547, A
983	32.2	1.7	1795	3	US-08-957-063-17	Sequence 17, Appl	1056	32	1.7	630	4	US-09-252-991A-3724	Sequence 3724, A
984	32.2	1.7	1895	3	US-08-487-685-17	Sequence 17, Appl	1057	32	1.7	642	4	US-09-902-540-7454	Sequence 7454, A
985	32.2	1.7	1995	3	US-08-802-805D-17	Sequence 17, Appl	1058	32	1.7	644	4	US-09-902-540-7566	Sequence 7566, A
986	32.2	1.7	1995	3	US-08-388-316C-17	Sequence 17, Appl	1059	32	1.7	943	4	US-09-902-540-7825	Sequence 7825, A
987	32.2	1.7	2047	3	US-09-345-468-1	Sequence 1, Appl	1060	32	1.7	953	3	US-09-452-239-45	Sequence 45, Appl
988	32.2	1.7	2047	3	US-09-414-453A-1	Sequence 1, Appl	C1061	32	1.7	963	4	US-09-252-991A-4890	Sequence 4890, A
989	32.2	1.7	2167	4	US-09-949-016-4434	Sequence 166, Appl	1062	32	1.7	1026	4	US-09-252-991A-11384	Sequence 11384, A
990	32.2	1.7	2176	4	US-09-949-016-166	Sequence 166, Appl	1063	32	1.7	1032	3	US-08-375-186-1	Sequence 1, Appl
C 991	32.2	1.7	2205	4	US-09-252-991A-11217	Sequence 11217, A	1064	32	1.7	1032	3	US-09-138-873A-4	Sequence 4, Appl
992	32.2	1.7	2237	4	US-09-902-540-7406	Sequence 7406, A	1065	32	1.7	1032	3	US-08-775-362-1	Sequence 1, Appl
993	32.2	1.7	2244	1	US-08-476-519-10	Sequence 10, Appl	1066	32	1.7	1049	3	US-09-452-239-43	Sequence 43, Appl
994	32.2	1.7	2244	5	PCT-US95-09323-10	Sequence 10, Appl	C1067	32	1.7	1104	4	US-09-252-991A-11488	Sequence 11488, A
995	32.2	1.7	2334	1	US-08-476-519-1	Sequence 1, Appl	1068	32	1.7	1119	4	US-09-489-039A-5345	Sequence 5345, A
996	32.2	1.7	2334	5	PCT-US95-09323-1	Sequence 1, Appl	C1069	32	1.7	1155	4	US-09-902-540-8344	Sequence 8344, A
997	32.2	1.7	2454	4	US-09-252-991A-11038	Sequence 11038, A	1070	32	1.7	1161	4	US-09-275-252A-17	Sequence 17, Appl
C 998	32.2	1.7	2479	4	US-09-270-767-12486	Sequence 12486, A	C1071	32	1.7	1182	4	US-09-252-991A-3791	Sequence 3791, A
999	32.2	1.7	2482	4	US-09-620-312D-549	Sequence 549, Appl	1072	32	1.7	1245	4	US-09-252-991A-11404	Sequence 11404, A
1000	32.2	1.7	2701	4	US-09-949-016-5547	Sequence 5547, A	C1073	32	1.7	1340	2	US-08-468-763-16	Sequence 16, Appl
1001	32.2	1.7	3270	4	US-09-902-540-4814	Sequence 4814, A	C1074	32	1.7	1479	4	US-09-393-996A-16	Sequence 16, Appl
1002	32.2	1.7	3282	4	US-09-489-847-52	Sequence 52, Appl	C1075	32	1.7	1479	4	US-09-252-991A-3832	Sequence 3832, A
1003	32.2	1.7	3348	4	US-09-312-762A-2	Sequence 2, Appl	1076	32	1.7	1485	4	US-09-902-540-4639	Sequence 4639, A
1004	32.2	1.7	3358	3	US-08-957-063-4	Sequence 4, Appl	1077	32	1.7	1534	4	US-09-949-016-5791	Sequence 5791, A
1005	32.2	1.7	3358	3	US-09-487-685-4	Sequence 4, Appl	1078	32	1.7	1566	4	US-09-252-991A-3194	Sequence 3194, A
1006	32.2	1.7	3358	3	US-08-802-805D-4	Sequence 4, Appl	1079	32	1.7	1582	4	US-09-424-978B-35	Sequence 35, Appl
1007	32.2	1.7	3358	4	US-09-388-316C-4	Sequence 4, Appl	C1080	32	1.7	1599	4	US-09-252-991A-2670	Sequence 2670, A
1008	32.2	1.7	3486	4	US-09-252-991A-6301	Sequence 6301, A	C1081	32	1.7	1602	4	US-09-902-540-7421	Sequence 7421, A
1009	32.2	1.7	3638	4	US-09-902-540-686	Sequence 686, Appl	C1082	32	1.7	1642	1	US-08-232-015-2	Sequence 2, Appl
C1010	32.2	1.7	4079	4	US-09-016-434-1248	Sequence 1248, A	C1083	32	1.7	1662	4	US-09-949-016-63	Sequence 63, Appl
1011	32.2	1.7	4517	4	US-09-949-016-4573	Sequence 4573, A	C1084	32	1.7	1663	4	US-09-949-016-4600	Sequence 4600, A
1012	32.2	1.7	4519	4	US-09-023-655-1202	Sequence 1202, A	1085	32	1.7	1707	4	US-09-902-540-2606	Sequence 2606, A
1013	32.2	1.7	4519	4	US-09-949-016-650	Sequence 650, Appl	1086	32	1.7	1740	4	US-09-252-991A-15553	Sequence 15553, A
C1014	32.2	1.7	4519	4	US-09-492-027-3	Sequence 3, Appl	1087	32	1.7	1747	3	US-09-227-595-25	Sequence 25, Appl
1015	32.2	1.7	5872	4	US-09-902-540-859	Sequence 859, Appl	1088	32	1.7	1747	4	US-08-595-590B-25	Sequence 25, Appl
C1016	32.2	1.7	6021	4	US-09-948-016-12785	Sequence 12785, A	1089	32	1.7	1747	4	US-08-595-590B-27	Sequence 27, Appl
1017	32.2	1.7	6027	4	US-09-949-016-17143	Sequence 17143, A	1090	32	1.7	1747	4	US-08-595-590B-27	Sequence 27, Appl
C1018	32.2	1.7	6854	3	US-09-194-905-7	Sequence 7, Appl	1091	32	1.7	1784	4	US-09-073-009-102	Sequence 102, Appl
1019	32.2	1.7	6854	4	US-09-922-683-7	Sequence 7, Appl	1092	32	1.7	1784	4	US-09-073-010-102	Sequence 102, Appl
1020	32.2	1.7	7244	4	US-09-774-528-143	Sequence 143, Appl	1093	32	1.7	1784	4	US-09-620-312D-740	Sequence 740, Appl
1021	32.2	1.7	7628	4	US-09-902-540-867	Sequence 867, Appl	C1095	32	1.7	1803	4	US-09-902-540-7762	Sequence 7762, A
C1022	32.2	1.7	8048	4	US-09-902-540-867	Sequence 867, Appl	1096	32	1.7	1833	4	US-09-902-540-4884	Sequence 4884, A
1023	32.2	1.7	9432	4	US-09-949-016-12516	Sequence 12516, A	1097	32	1.7	1884	4	US-09-902-540-8567	Sequence 8567, A
1024	32.2	1.7	9434	4	US-09-949-016-14490	Sequence 14490, A	1098	32	1.7	1979	4	US-09-023-655-597	Sequence 597, Appl
C1025	32.2	1.7	10871	4	US-09-902-540-1025	Sequence 1025, A	1099	32	1.7	2029	2	US-07-916-098A-43	Sequence 43, Appl
1026	32.2	1.7	14462	4	US-09-902-540-1090	Sequence 1090, Appl	1100	32	1.7	2156	4	US-09-086-663A-78	Sequence 78, Appl
C1027	32.2	1.7	14622	4	US-09-902-540-9597	Sequence 9597, Appl	1101	32	1.7	2399	2	US-08-070-116A-1	Sequence 1, Appl
1028	32.2	1.7	17198	4	US-09-948-016-13776	Sequence 13776, A	1102	32	1.7	2399	4	US-08-557-050-1	Sequence 44, Appl
1029	32.2	1.7	20235	1	US-07-642-734C-3	Sequence 3, Appl	C1103	32	1.7	2560	2	US-07-916-098A-44	Sequence 2768, A
1030	32.2	1.7	20235	3	US-08-439-009A-3	Sequence 3, Appl	1104	32	1.7	2598	4	US-09-252-991A-2768	Sequence 2768, A
C1031	32.2	1.7	21855	4	US-09-949-016-14953	Sequence 14953, A	1105	32	1.7	2718	4	US-09-902-540-2891	Sequence 2891, A
1032	32.2	1.7	24905	4	US-09-902-540-1225	Sequence 1225, A	C1105	32	1.7	2735	4	US-09-949-016-2446	Sequence 2446, A
C1033	32.2	1.7	27219	4	US-09-902-540-1244	Sequence 1244, Appl	1106	32	1.7	2742	4	US-09-252-991A-3678	Sequence 3678, A
1034	32.2	1.7	28604	2	US-08-592-874-1	Sequence 1, Appl	1107	32	1.7	3109	4	US-09-902-540-413	Sequence 413, A
C1035	32.2	1.7	28604	3	US-09-096-942-2	Sequence 2, Appl	C1108	32	1.7	3164	4	US-09-976-594-320	Sequence 320, Appl
1036	32.2	1.7	28804	3	US-09-096-867-2	Sequence 2, Appl	1109	32	1.7	3249	3	US-09-343-494-2	Sequence 2, Appl
1037	32.2	1.7	29103	4	US-09-902-540-1236	Sequence 1236, A	1110	32	1.7	3249	4	US-10-160-224-2	Sequence 2, Appl
C1038	32.2	1.7	39032	4	US-09-949-016-12874	Sequence 12874, A	1111	32	1.7	3323	3	US-09-600-776-1	Sequence 1, Appl
1039	32.2	1.7	39032	4	US-09-949-016-16462	Sequence 16462, A	1112	32	1.7	3323	4	US-09-965-830-1	Sequence 1, Appl
C1040	32.2	1.7	41431	4	US-09-949-016-11908	Sequence 11908, A	C1113	32	1.7	3573	4	US-09-252-991A-4903	Sequence 4903, A
1041	32.2	1.7	41433	4	US-09-949-016-16176	Sequence 16176, A	1114	32	1.7	3711	4	US-09-902-540-7049	Sequence 7049, A
C1043	32.2	1.7	49401	4	US-09-949-016-17080	Sequence 17080, A	1115	32	1.7	3857	3	US-09-336-643A-19	Sequence 26, Appl
1044	32.2	1.7	54484	4	US-09-902-540-1272	Sequence 1272, A	1116	32	1.7	4050	3	US-09-543-084A-28	Sequence 28, Appl
1045	32.2	1.7	251769	4	US-09-949-016-13185	Sequence 13185, A	1117	32	1.7	4050	3	US-09-543-084A-26	Sequence 26, Appl
1046	32.2	1.7	251769	4	US-09-949-016-13186	Sequence 13186, A	C1118	32	1.7	4176	4	US-09-902-540-872	Sequence 872, A
1047	32.2	1.7	266748	4	US-09-949-016-13187	Sequence 13187, A	C1119	32	1.7	4402	4	US-09-902-540-742	Sequence 742, A
C1048	32.2	1.7	382	4	US-09-513-999C-27	Sequence 27, Appl	1120	32	1.7	4761	4	US-09-902-540-739	Sequence 739, A
1049	32.2	1.7	408	4	US-09-902-540-6365	Sequence 6365, A	1121	32	1.7	5255	4	US-09-902-540-771	Sequence 771, A
							1122	32	1.7	5482	4	US-09-902-540-723	Sequence 723, A

1123	32	1.7	6083	4	US-09-902-540-763	Sequence 763, App	1196	31.8	1.7	1257	4	US-09-252-991A-892	Sequence 892, App
1124	32	1.7	6260	3	US-09-902-540-781	Sequence 781, App	c1197	31.8	1.7	1291	3	US-08-997-897-1	Sequence 1, Appli
1125	32	1.7	6677	3	US-08-939-366-27	Sequence 27, Appli	c1198	31.8	1.7	1391	3	US-09-156-838B-1	Sequence 1, Appli
1126	32	1.7	6677	3	US-09-487-997-6	Sequence 6, Appli	1199	31.8	1.7	1329	4	US-09-489-038A-3268	Sequence 3268, Ap
1127	32	1.7	7337	4	US-09-902-540-715	Sequence 715, App	1200	31.8	1.7	1329	4	US-09-489-039A-4599	Sequence 4599, Ap
1128	32	1.7	9318	4	US-09-949-016-13864	Sequence 13864, A	c1201	31.8	1.7	1553	4	US-09-865-879-2	Sequence 2, Appli
1129	32	1.7	10844	3	US-08-444-644-41	Sequence 41, Appli	1202	31.8	1.7	1737	2	US-08-750-703-2	Sequence 1, Appli
1130	32	1.7	10844	3	US-08-232-246A-41	Sequence 41, Appli	c1203	31.8	1.7	1785	2	US-08-910-856-1	Sequence 1, Appli
1131	32	1.7	11382	4	US-09-902-540-904	Sequence 904, App	1204	31.8	1.7	1818	4	US-09-252-991A-16303	Sequence 16303, A
1132	32	1.7	12449	4	US-09-949-016-15755	Sequence 15755, A	c1205	31.8	1.7	1830	4	US-09-252-991A-15976	Sequence 15976, A
1133	32	1.7	13624	4	US-09-902-540-1053	Sequence 1053, Ap	c1206	31.8	1.7	1833	4	US-09-252-991A-3023	Sequence 3023, A
1134	32	1.7	14915	4	US-09-949-016-11992	Sequence 11992, A	1207	31.8	1.7	1842	4	US-09-902-540-346	Sequence 346, App
1135	32	1.7	14918	4	US-09-949-016-13132	Sequence 13132, A	1208	31.8	1.7	1902	2	US-09-258-257-1	Sequence 1, Appli
1136	32	1.7	16423	4	US-09-902-540-1120	Sequence 1120, Ap	1209	31.8	1.7	1902	2	US-09-258-371-1	Sequence 1, Appli
1137	32	1.7	17644	4	US-09-949-016-16342	Sequence 16342, A	1210	31.8	1.7	1902	3	US-08-569-721A-1	Sequence 1, Appli
1138	32	1.7	17645	4	US-09-949-016-11805	Sequence 11805, A	1211	31.8	1.7	1902	3	US-08-751-230-1	Sequence 1, Appli
1139	32	1.7	17645	4	US-09-949-016-14188	Sequence 14188, A	1212	31.8	1.7	1902	3	US-09-499-082-1	Sequence 1, Appli
1140	32	1.7	23233	4	US-09-902-540-1184	Sequence 1184, Ap	1213	31.8	1.7	1902	3	US-09-258-372-1	Sequence 1, Appli
1141	32	1.7	26930	4	US-09-902-540-1228	Sequence 1228, Ap	1214	31.8	1.7	1902	4	US-09-532-868-1	Sequence 1, Appli
1142	32	1.7	43992	4	US-09-949-016-12172	Sequence 12172, A	1215	31.8	1.7	2061	2	US-09-258-371-9	Sequence 9, Appli
1143	32	1.7	43993	4	US-09-949-016-13406	Sequence 13406, A	1216	31.8	1.7	2061	3	US-08-751-230-9	Sequence 9, Appli
1144	32	1.7	44430	4	US-09-949-016-12468	Sequence 12468, A	1217	31.8	1.7	2061	3	US-09-499-082-9	Sequence 9, Appli
1145	32	1.7	44431	4	US-09-949-016-15862	Sequence 15862, A	1218	31.8	1.7	2061	3	US-09-258-372-9	Sequence 9, Appli
1146	32	1.7	46253	4	US-09-949-016-11890	Sequence 11890, A	1219	31.8	1.7	2061	3	US-09-006-783A-2	Sequence 2, Appli
1147	32	1.7	46257	4	US-09-949-016-13711	Sequence 13711, A	1220	31.8	1.7	2061	3	US-09-159-871-1	Sequence 1, Appli
1148	32	1.7	86639	4	US-09-949-016-17397	Sequence 17397, A	1221	31.8	1.7	2061	4	US-09-532-868-9	Sequence 9, Appli
1149	32	1.7	128723	4	US-09-949-016-17533	Sequence 17533, A	c1222	31.8	1.7	2340	4	US-09-902-540-8210	Sequence 8210, Ap
1150	32	1.7	203475	4	US-09-949-016-14516	Sequence 14516, A	1223	31.8	1.7	2693	4	US-09-620-312D-693	Sequence 693, App
1151	32	1.7	203475	4	US-09-949-016-14517	Sequence 14517, A	1224	31.8	1.7	2725	4	US-09-949-016-1854	Sequence 1854, Ap
1152	32	1.7	203475	4	US-09-949-016-14518	Sequence 14518, A	1225	31.8	1.7	2737	4	US-09-902-540-3798	Sequence 3798, Ap
1153	32	1.7	203475	4	US-09-949-016-14519	Sequence 14519, A	1226	31.8	1.7	2831	4	US-09-477-135A-117	Sequence 117, App
1154	32	1.7	203475	4	US-09-949-016-17226	Sequence 17226, A	1227	31.8	1.7	2852	3	US-09-056-556-203	Sequence 203, App
1155	32	1.7	203475	4	US-09-949-016-17227	Sequence 17227, A	1228	31.8	1.7	2852	3	US-09-072-596-198	Sequence 198, App
1156	32	1.7	203475	4	US-09-949-016-17228	Sequence 17228, A	1229	31.8	1.7	2852	4	US-09-072-967-203	Sequence 203, App
1157	32	1.7	203475	4	US-09-949-016-17229	Sequence 17229, A	1230	31.8	1.7	2859	4	US-09-252-991A-944	Sequence 944, App
1158	32	1.7	247781	4	US-09-949-016-14193	Sequence 14193, A	1231	31.8	1.7	2930	4	US-09-620-312D-692	Sequence 692, App
1159	31.8	1.7	399	4	US-09-252-991A-2748	Sequence 2748, Ap	1232	31.8	1.7	3113	4	US-09-894-998A-52	Sequence 52, Appli
1160	31.8	1.7	426	4	US-09-902-540-6553	Sequence 6553, Ap	1233	31.8	1.7	3113	4	US-10-237-551-52	Sequence 52, Appli
1161	31.8	1.7	447	4	US-09-248-796B-13552	Sequence 13552, A	1234	31.8	1.7	3187	2	US-08-910-856-9	Sequence 9, Appli
1162	31.8	1.7	601	4	US-09-949-016-69519	Sequence 69519, A	1235	31.8	1.7	3187	2	US-08-910-856-10	Sequence 10, Appli
1163	31.8	1.7	601	4	US-09-949-016-76806	Sequence 76806, A	1236	31.8	1.7	3187	4	US-09-672-749-16	Sequence 16, Appli
1164	31.8	1.7	601	4	US-09-949-016-137344	Sequence 137344, A	1237	31.8	1.7	3345	4	US-09-894-998A-49	Sequence 49, Appli
1165	31.8	1.7	601	4	US-09-949-016-167351	Sequence 167351, A	1238	31.8	1.7	3345	4	US-10-237-551-49	Sequence 49, Appli
1166	31.8	1.7	601	4	US-09-949-016-167352	Sequence 167352, A	1239	31.8	1.7	3345	4	US-10-237-551-189	Sequence 189, App
1167	31.8	1.7	601	4	US-09-949-016-204004	Sequence 204004, A	c1240	31.8	1.7	3350	4	US-09-894-998A-48	Sequence 48, Appli
1168	31.8	1.7	601	4	US-09-949-016-204005	Sequence 204005, A	c1241	31.8	1.7	3350	4	US-10-237-551-48	Sequence 48, Appli
1169	31.8	1.7	633	3	US-09-006-783A-6	Sequence 6, Appli	1242	31.8	1.7	3618	4	US-09-902-540-9652	Sequence 9652, Ap
1170	31.8	1.7	714	3	US-09-156-838B-7	Sequence 7, Appli	c1243	31.8	1.7	3666	2	US-09-502-540-484	Sequence 484, Appli
1171	31.8	1.7	732	3	US-08-997-897-7	Sequence 7, Appli	1245	31.8	1.7	3756	2	US-08-576-626A-1	Sequence 1, Appli
1172	31.8	1.7	738	4	US-09-252-991A-2934	Sequence 2934, Ap	1246	31.8	1.7	3776	4	US-09-252-991A-2933	Sequence 2933, Ap
1173	31.8	1.7	789	4	US-09-902-540-16179	Sequence 16179, A	c1246	31.8	1.7	4199	4	US-09-902-540-525	Sequence 525, App
1174	31.8	1.7	804	4	US-09-489-039A-5718	Sequence 5718, Ap	1247	31.8	1.7	4213	4	US-09-711-618-8	Sequence 8, Appli
1175	31.8	1.7	819	4	US-09-252-991A-2845	Sequence 2845, Ap	c1248	31.8	1.7	4549	4	US-09-620-312D-266	Sequence 266, App
1176	31.8	1.7	834	4	US-09-621-976-2574	Sequence 2574, Ap	1249	31.8	1.7	4608	4	US-09-949-016-5404	Sequence 5404, Ap
1177	31.8	1.7	867	4	US-09-902-540-3225	Sequence 3225, Ap	c1250	31.8	1.7	4617	4	US-09-949-016-1005	Sequence 1005, Ap
1178	31.8	1.7	873	3	US-09-006-783A-4	Sequence 4, Appli	c1251	31.8	1.7	4942	4	US-09-620-312D-267	Sequence 267, App
1179	31.8	1.7	880	3	US-09-889-595-3	Sequence 3, Appli	1252	31.8	1.7	5058	3	US-09-889-595-1	Sequence 1, Appli
1180	31.8	1.7	880	4	US-09-899-595-3	Sequence 3, Appli	1253	31.8	1.7	5058	4	US-09-899-595-1	Sequence 1, Appli
1181	31.8	1.7	888	4	US-09-902-540-6257	Sequence 6257, Ap	1254	31.8	1.7	6827	4	US-09-711-619-7	Sequence 7, Appli
1182	31.8	1.7	924	4	US-09-252-991A-1483	Sequence 1483, Ap	c1255	31.8	1.7	8060	4	US-09-902-540-847	Sequence 847, App
1183	31.8	1.7	930	4	US-09-252-991A-15663	Sequence 15663, A	1256	31.8	1.7	8453	3	US-09-167-681-45	Sequence 45, Appli
1184	31.8	1.7	975	4	US-09-902-540-9140	Sequence 9140, Ap	c1257	31.8	1.7	8779	2	US-08-750-703-4	Sequence 4, Appli
1185	31.8	1.7	1020	4	US-09-902-540-5913	Sequence 5913, Ap	c1258	31.8	1.7	9311	2	US-09-949-016-14994	Sequence 7, Appli
1186	31.8	1.7	1062	4	US-09-016-434-1286	Sequence 1286, Ap	1259	31.8	1.7	10103	2	US-08-457-2738-7	Sequence 977, App
1187	31.8	1.7	1062	4	US-08-134-231C-33	Sequence 33, Appli	c1260	31.8	1.7	10178	4	US-09-902-540-977	Sequence 12471, A
1188	31.8	1.7	1062	4	US-09-023-655-1327	Sequence 1327, Ap	1261	31.8	1.7	11145	4	US-09-949-016-12471	Sequence 13709, A
1189	31.8	1.7	1062	4	US-08-728-160-33	Sequence 33, Appli	c1262	31.8	1.7	12309	4	US-09-949-016-13709	Sequence 3, Appli
1190	31.8	1.7	1079	4	US-09-902-540-174	Sequence 174, App	1263	31.8	1.7	13953	3	US-09-738-884-3	Sequence 3, Appli
1191	31.8	1.7	1080	4	US-09-902-540-6679	Sequence 6679, Ap	1264	31.8	1.7	13953	4	US-10-096-961A-3	Sequence 13566, A
1192	31.8	1.7	1143	4	US-09-451-739H-2	Sequence 2, Appli	1265	31.8	1.7	15392	4	US-09-949-016-13596	Sequence 3, Appli
1193	31.8	1.7	1206	4	US-09-252-991A-6454	Sequence 6454, Ap	c1266	31.8	1.7	16389	3	US-09-741-154-3	Sequence 3, Appli
1194	31.8	1.7	1225	4	US-09-902-540-3454	Sequence 3454, Ap	c1267	31.8	1.7	17726	4	US-09-902-540-1148	Sequence 1148, Ap
1195	31.8	1.7	1239	4	US-09-252-991A-6096	Sequence 6096, Ap	1268	31.8	1.7	18551	4	US-09-902-540-1187	Sequence 1187, Ap



c1269	31.8	1.7	22773	4	US-09-990-613A-6	Sequence 6, Appli	1342	31.6	1.7	1630	4	US-09-169-789-107	Sequence 107, App
1270	31.8	1.7	23496	4	US-09-902-540-5645	Sequence 5645, Ap	1343	31.6	1.7	1674	4	US-09-949-016-3095	Sequence 3095, Ap
1271	31.8	1.7	33060	3	US-08-814-095-7	Sequence 7, Appli	c1344	31.6	1.7	1722	4	US-09-252-991A-9857	Sequence 9857, Ap
1272	31.8	1.7	36851	4	US-09-949-016-14674	Sequence 14674, A	1345	31.6	1.7	1740	4	US-09-902-540-4414	Sequence 4414, Ap
c1273	31.8	1.7	38808	4	US-09-949-016-11802	Sequence 11802, A	1346	31.6	1.7	1854	4	US-09-902-540-8538	Sequence 8538, Ap
c1274	31.8	1.7	38808	4	US-09-949-016-16735	Sequence 16735, A	1347	31.6	1.7	1872	3	US-09-801-052-1	Sequence 1, Appli
1275	31.8	1.7	41170	4	US-09-902-540-1267	Sequence 1267, Ap	1348	31.6	1.7	1872	4	US-10-020-121-1	Sequence 1, Appli
c1276	31.8	1.7	51354	4	US-09-902-540-1270	Sequence 1270, Ap	1349	31.6	1.7	1879	2	US-08-403-852D-5	Sequence 5, Appli
c1277	31.8	1.7	55328	4	US-09-949-016-12747	Sequence 12747, A	1350	31.6	1.7	1879	3	US-08-510-646B-5	Sequence 5, Appli
c1278	31.8	1.7	55330	4	US-09-949-016-17146	Sequence 17146, A	1351	31.6	1.7	1879	3	US-09-231-818-5	Sequence 5, Appli
c1279	31.8	1.7	92227	4	US-09-949-016-11929	Sequence 11929, A	1352	31.6	1.7	1879	4	US-09-635-359B-5	Sequence 5, Appli
c1280	31.8	1.7	92232	4	US-09-949-016-15421	Sequence 15421, A	1353	31.6	1.7	1881	4	US-09-252-991A-3697	Sequence 3697, Ap
c1281	31.8	1.7	100836	4	US-09-949-016-12871	Sequence 12871, A	1354	31.6	1.7	1884	4	US-09-902-540-4066	Sequence 4066, Ap
c1282	31.8	1.7	100837	4	US-09-949-016-17063	Sequence 17063, A	1355	31.6	1.7	1894	1	US-08-615-170-20	Sequence 20, Appl
c1283	31.8	1.7	106418	4	US-09-949-016-13974	Sequence 13974, A	1356	31.6	1.7	1897	1	US-08-615-170-18	Sequence 18, Appl
1284	31.8	1.7	117838	4	US-09-949-016-17595	Sequence 17595, A	c1357	31.6	1.7	1901	4	US-09-902-540-488	Sequence 488, App
1285	31.8	1.7	12188	4	US-09-949-016-11980	Sequence 11980, A	1358	31.6	1.7	1927	3	US-09-336-643A-3	Sequence 3, Appli
c1286	31.8	1.7	154746	4	US-09-827-688-8	Sequence 8, Appli	c1359	31.6	1.7	1941	4	US-09-252-991A-2378	Sequence 2378, Ap
c1287	31.8	1.7	228851	4	US-09-949-016-13781	Sequence 13781, A	c1360	31.6	1.7	1998	4	US-09-252-991A-3812	Sequence 3812, Ap
1288	31.8	1.7	264358	4	US-09-949-016-15725	Sequence 15725, A	c1361	31.6	1.7	2070	4	US-09-252-991A-2189	Sequence 2189, Ap
c1289	31.8	1.7	276237	4	US-09-949-016-17504	Sequence 17504, A	1362	31.6	1.7	2096	4	US-09-598-401C-60	Sequence 60, Appl
1290	31.6	1.7	282	2	US-08-716-942-13	Sequence 13, Appl	1363	31.6	1.7	2131	4	US-09-220-132-145	Sequence 145, App
1291	31.6	1.7	282	3	US-09-130-337A-13	Sequence 13, Appl	1364	31.6	1.7	2131	4	US-09-202-132-145	Sequence 3500, Ap
1292	31.6	1.7	284	4	US-09-313-284A-6471	Sequence 6471, Ap	c1365	31.6	1.7	2231	3	US-09-902-540-3500	Sequence 24, Appl
c1293	31.6	1.7	310	4	US-09-513-999C-9835	Sequence 9835, Ap	1366	31.6	1.7	2231	3	US-09-008-271A-24	Sequence 5, Appli
c1294	31.6	1.7	383	4	US-09-621-976-96	Sequence 96, Appl	1367	31.6	1.7	2456	4	US-09-546-553-5	Sequence 5, Appli
1295	31.6	1.7	393	4	US-09-902-540-5713	Sequence 5713, Ap	c1368	31.6	1.7	2571	4	US-09-252-991A-4873	Sequence 4873, Ap
1296	31.6	1.7	444	4	US-09-902-540-6561	Sequence 6561, Ap	1369	31.6	1.7	2820	4	US-09-252-991A-2538	Sequence 2538, Ap
1297	31.6	1.7	453	4	US-09-902-540-5781	Sequence 5781, Ap	1370	31.6	1.7	2844	4	US-09-252-991A-4827	Sequence 4827, Ap
c1298	31.6	1.7	601	4	US-09-949-016-162887	Sequence 162887, A	1371	31.6	1.7	2859	3	US-09-099-041A-7	Sequence 9, Appli
1299	31.6	1.7	642	3	US-09-588-256-5	Sequence 5, Appli	1372	31.6	1.7	2859	3	US-09-245-281-9	Sequence 9, Appli
1300	31.6	1.7	648	4	US-09-902-540-3939	Sequence 3939, Ap	1373	31.6	1.7	2859	3	US-09-207-359B-9	Sequence 9, Appli
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; Patent No. 6734288
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; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Klijavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TR
; TITLE OF INVENTION: ACIDS ENCODING
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/9
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866.02
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067.41
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,333
; PRIOR FILING DATE: December 11, 1999
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: December 11, 1999

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; APPLICANT: Botstein, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gerritsen, Mary  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: KJavin, Ivar  
; APPLICANT: Napier, Mary  
; APPLICANT: Roy, Margaret  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P2548P1C1  
; CURRENT APPLICATION NUMBER: US/09/944,457  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 09/866,028  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/067,411  
; PRIOR FILING DATE: December 3, 1997  
; PRIOR APPLICATION NUMBER: 60/069,334  
; PRIOR FILING DATE: December 11, 1997  
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; PRIOR FILING DATE: December 11, 1997

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207	53.6	2.9	2400	10	US-09-789-390-16	Sequence 16, Appl	300	40.2	2.1	896	15	US-10-424-593-128174	Sequence 128174, A
208	49.8	2.7	536	17	US-10-338-110-119	Sequence 119, App	c 301	40	2.1	699	19	US-10-437-963-42786	Sequence 42786, A
c 209	48.8	2.6	1639	19	US-10-437-963-102452	Sequence 102452, A	c 302	40	2.1	3372	14	US-10-067-451-2	Sequence 2, Appli
210	48.4	2.6	13268	15	US-10-007-926A-47	Sequence 47, Appl	303	39.8	2.1	497	19	US-10-067-701-6629	Sequence 6629, App
211	48.4	2.6	13268	21	US-10-956-157-2282	Sequence 2282, App	304	39.8	2.1	537	19	US-10-437-963-82926	Sequence 82926, A
212	48.4	2.6	13857	15	US-10-037-270-75	Sequence 75, Appl	305	39.6	2.1	395	13	US-10-068-347-7	Sequence 7, Appli
213	48.4	2.6	13857	17	US-10-117-722-75	Sequence 75, Appl	306	39.6	2.1	690	13	US-10-068-347-7	Sequence 27, Appl
214	48.4	2.6	69245	22	US-10-737-082-75	Sequence 75, Appl	307	39.6	2.1	690	13	US-10-068-347-7	Sequence 19, Appl
215	48.4	2.6	69245	22	US-10-737-082-80	Sequence 80, Appl	308	39.6	2.1	837	20	US-10-081-864-19	Sequence 19, Appl
216	48.4	2.6	69245	22	US-10-765-790-75	Sequence 75, Appl	309	39.6	2.1	837	20	US-10-081-864-19	Sequence 136763, A
217	48.4	2.6	69245	22	US-10-765-790-80	Sequence 80, Appl	c 310	39.6	2.1	837	20	US-10-081-864-19	Sequence 136763, A
218	48.4	2.6	100267	18	US-10-765-790-80	Sequence 80, Appl	c 312	39.6	2.1	1904	20	US-10-425-115-177661	Sequence 177661, A
219	47.4	2.5	13285	22	US-10-240-425-1470	Sequence 1470, App	313	39.6	2.1	2128	22	US-10-425-115-177661	Sequence 13611, A
220	46.8	2.5	536	16	US-10-764-425-74	Sequence 74, Appl	314	39.6	2.1	9546	18	US-10-463-074-2	Sequence 2, Appli
221	46.8	2.5	536	16	US-10-029-386-10449	Sequence 10449, A	315	39.4	2.1	960	17	US-10-463-074-2	Sequence 30095, A
222	46.8	2.5	1251	16	US-10-029-386-24152	Sequence 24152, A	316	39.4	2.1	1300	19	US-10-282-122A-30095	Sequence 28267, A
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224	46.8	2.5	891	18	US-10-425-114-30277	Sequence 30277, A	318	39.2	2.1	585	19	US-10-437-963-35998	Sequence 35998, A
225	45.8	2.4	1248	20	US-10-425-114-30277	Sequence 30277, A	319	39.2	2.1	1821	20	US-10-437-963-9933	Sequence 9933, App
226	45.8	2.4	1311	20	US-10-411-910A-220	Sequence 220, App	c 320	39.2	2.1	1947	17	US-10-411-910A-224	Sequence 224, App
227	45.8	2.4	2305	10	US-10-411-910A-200	Sequence 200, App	c 321	39.2	2.1	1947	17	US-10-381-779-10	Sequence 10, Appl
228	45.8	2.4	2305	10	US-09-789-390-14	Sequence 14, Appl	c 322	39.2	2.1	1947	17	US-10-381-779-10	Sequence 31580, A
229	45	2.4	45	9	US-09-944-457-53	Sequence 53, Appl	c 323	39.2	2.1	2270	19	US-10-369-493-31580	Sequence 49546, A
230	45	2.4	45	17	US-10-429-667-53	Sequence 53, Appl	324	39.2	2.1	3732	15	US-10-437-963-48546	Sequence 102, App
231	45	2.4	45	18	US-10-677-471-53	Sequence 53, Appl	325	39.2	2.1	5520	9	US-09-902-525-38	Sequence 38, Appl
232	45	2.4	45	18	US-10-677-669-53	Sequence 53, Appl	c 326	39	2.1	5520	24	US-11-047-257-38	Sequence 119, App
233	45	2.4	45	20	US-10-735-014-53	Sequence 53, Appl	327	39	2.1	536	17	US-10-338-110-119	Sequence 26181, A
234	45	2.4	45	20	US-10-854-947-53	Sequence 53, Appl	328	39	2.1	554	19	US-09-918-995-26181	Sequence 26181, A
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236	45	2.4	45	21	US-10-901-400-53	Sequence 53, Appl	330	39	2.1	1322	19	US-10-437-963-12388	Sequence 12388, A
237	45	2.4	45	21	US-10-858-981-53	Sequence 53, Appl	331	39	2.1	1481	19	US-10-437-963-56660	Sequence 56660, A
238	45	2.4	45	21	US-10-899-671-53	Sequence 53, Appl	332	39	2.1	3201	18	US-10-240-425-1554	Sequence 1554, App
239	45	2.4	45	21	US-10-943-353-53	Sequence 53, Appl	333	39	2.1	16977	19	US-10-741-601-5625	Sequence 5625, App
240	45	2.4	612	9	US-09-832-320-3	Sequence 3, Appli	334	39	2.1	29283	19	US-10-741-601-5625	Sequence 5720, App
241	45	2.4	898	9	US-09-832-320-1	Sequence 1, Appli	335	38.8	2.1	797	20	US-10-425-115-88900	Sequence 88900, A
242	45	2.4	924	20	US-10-425-115-141537	Sequence 141537, A	336	38.8	2.1	864	18	US-09-808-898-26	Sequence 26, Appl
243	45	2.4	538	20	US-10-425-115-93178	Sequence 93178, A	337	38.8	2.1	1067	18	US-10-425-114-25810	Sequence 25810, A
244	45	2.4	917	19	US-10-767-701-14664	Sequence 14664, A	338	38.8	2.1	1551	19	US-10-437-963-49506	Sequence 49506, A
245	45	2.4	762	17	US-10-243-552-243	Sequence 243, App	339	38.8	2.1	14061	17	US-10-093-463-73	Sequence 73, Appl
246	45	2.4	898	17	US-10-094-886-119	Sequence 119, App	340	38.8	2.1	14109	17	US-10-093-463-71	Sequence 71, Appl
247	45	2.4	1087	9	US-09-764-870-75	Sequence 75, Appl	341	38.6	2.1	763	15	US-10-259-165-627	Sequence 627, App
248	45	2.4	1087	9	US-10-125-540-75	Sequence 75, Appl	342	38.6	2.1	1266	15	US-10-127-032-38	Sequence 38, Appl
249	45	2.4	1088	9	US-09-764-870-221	Sequence 221, App	343	38.6	2.1	1266	18	US-10-389-647-332	Sequence 332, App
250	45	2.4	1088	14	US-10-125-540-221	Sequence 221, App	344	38.6	2.1	1275	20	US-10-425-115-122825	Sequence 122825, A
251	45	2.4	1265	9	US-10-425-115-141775	Sequence 141775, A	345	38.6	2.1	4233	22	US-10-723-860-4143	Sequence 4143, App
252	45	2.4	2244	9	US-09-764-870-222	Sequence 222, App	c 346	38.6	2.1	4244	20	US-10-723-860-8016	Sequence 8016, App
253	45	2.4	2244	14	US-10-125-540-222	Sequence 222, App	347	38.4	2.0	412	15	US-10-106-698-852	Sequence 852, App
254	45	2.4	453	20	US-10-425-115-158848	Sequence 158848, A	348	38.4	2.0	726	20	US-10-425-115-175314	Sequence 175314, A
255	45	2.4	615	21	US-10-476-389-10	Sequence 10, Appl	c 349	38.4	2.0	762	17	US-10-369-493-80615	Sequence 80615, A
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259	45	2.4	890	20	US-10-425-115-17260	Sequence 17260, A	353	38.4	2.0	2494	22	US-10-756-149-1720	Sequence 3, Appli
260	45	2.4	1053	22	US-10-450-763-8066	Sequence 8066, App	354	38.4	2.0	3459	22	US-10-311-795-3	Sequence 3, Appli
261	45	2.4	2920	16	US-10-676-2488-77	Sequence 77, Appl	c 355	38.4	2.0	3459	22	US-10-756-149-1720	Sequence 2, Appli
262	45	2.4	2920	16	US-10-029-386-20261	Sequence 20261, App	356	38.4	2.0	5781	18	US-10-219-446-2	Sequence 2, Appli
263	45	2.4	2920	16	US-10-106-698-1976	Sequence 1976, App	357	38.4	2.0	9625	18	US-10-219-446-1	Sequence 44, Appl
264	45	2.4	3375	13	US-10-087-192-2018	Sequence 2018, App	358	38.4	2.0	9625	18	US-10-219-446-44	Sequence 83, Appl
265	45	2.4	3375	13	US-10-509-009-1	Sequence 1, Appli	c 359	38.4	2.0	100301	19	US-10-450-826-83	Sequence 83, Appl
266	45	2.4	4716	22	US-10-712-124-83	Sequence 83, Appl	360	38.4	2.0	100301	19	US-10-723-860-3574	Sequence 3574, App
267	45	2.4	5727	19	US-10-331-053-62	Sequence 62, Appl	c 361	38.2	2.0	634	14	US-10-050-704-83	Sequence 83, Appl
268	45	2.4	83660	13	US-10-087-192-2017	Sequence 2017, App	362	38.2	2.0	634	14	US-10-798-512-83	Sequence 83, Appl
269	45	2.4	83660	13	US-10-331-053-61	Sequence 61, Appl	363	38.2	2.0	658	19	US-10-767-701-9145	Sequence 9145, App
270	45	2.4	696	19	US-10-767-701-489	Sequence 489, App	c 364	38.2	2.0	1114	13	US-10-027-632-9421	Sequence 9421, App
271	45	2.4	2532	19	US-10-437-963-66050	Sequence 66050, A	365	38.2	2.0	1114	13	US-10-027-632-9421	Sequence 9421, App
272	45	2.4	2652	14	US-10-195-970-4	Sequence 4, Appli	c 366	38.2	2.0	1114	17	US-10-027-632-9421	Sequence 9421, App
273	45	2.4	2652	14	US-10-195-970-5	Sequence 5, Appli	367	38.2	2.0	1114	17	US-10-027-632-9421	Sequence 9421, App
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275	45	2.4	2652	17	US-10-453-420-5	Sequence 5, Appli	369	38.2	2.0	1718	19	US-10-437-963-46389	Sequence 46389, A
276	45	2.4	77294	21	US-10-729-802-1	Sequence 1, Appli	c 370	38.2	2.0	1992	9	US-09-815-242-7772	Sequence 7772, App
277	45	2.4	9025608	15	US-10-156-761-1	Sequence 1, Appli	371	38.2	2.0	1992	16	US-10-246-330-19	Sequence 19, Appl
278	45	2.4	546	15	US-10-156-761-7029	Sequence 7029, App	c 372	38.2	2.0	2139	17	US-10-104-047-763	Sequence 763, App
279	45	2.4	2100	17	US-10-282-122A-13865	Sequence 13865, A							

373	38.2	2.0	2618	19	US-10-476-924-45	Sequence 45, Appl	576	37.4	2.0	5617	18	US-10-344-115-11	Sequence 11, Appl
C 374	38.2	2.0	2694	14	US-10-050-704-40	Sequence 40, Appl	577	37.4	2.0	6026	18	US-10-344-115-9	Sequence 9, Appl
C 375	38.2	2.0	2694	14	US-10-798-512-40	Sequence 40, Appl	578	37.2	2.0	6124	22	US-10-450-763-26425	Sequence 26425, A
376	38.2	2.0	2878	17	US-10-453-420-7	Sequence 7, Appl	579	37.2	2.0	821	20	US-10-425-115-73952	Sequence 73952, A
377	38.2	2.0	2878	17	US-10-295-027-259	Sequence 259, App	580	37.2	2.0	1060	18	US-10-425-114-3306	Sequence 3306, Ap
378	38.2	2.0	3153	10	US-09-759-1308-343	Sequence 343, App	581	37.2	2.0	1063	19	US-10-767-701-14717	Sequence 14717, A
379	38.2	2.0	3153	14	US-10-189-123-73	Sequence 73, Appl	582	37.2	2.0	1070	14	US-10-116-949-7	Sequence 7, Appl
380	38.2	2.0	3153	16	US-10-188-495-73	Sequence 73, Appl	583	37.2	2.0	1104	15	US-10-156-761-2940	Sequence 2940, Ap
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382	38.2	2.0	3438	18	US-10-312-352-60	Sequence 60, Appl	585	37.2	2.0	1177	20	US-10-425-115-110914	Sequence 110914, A
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493	38.2	2.0	32190	9	US-09-764-887-338	Sequence 338, App	590	37.2	2.0	2051	18	US-10-425-114-29817	Sequence 29817, A
494	38.2	2.0	32190	14	US-10-073-961-338	Sequence 338, App	591	37.2	2.0	2190	19	US-10-437-963-74980	Sequence 74980, A
C 495	38	2.0	223	20	US-10-425-115-182945	Sequence 182945, A	592	37.2	2.0	3726	9	US-09-350-259-1	Sequence 1, Appl
C 496	38	2.0	594	14	US-10-123-155-10	Sequence 10, Appl	593	37.2	2.0	3726	10	US-09-891-943-1	Sequence 1, Appl
C 500	38	2.0	2307	10	US-09-893-519A-87	Sequence 87, Appl	594	37.2	2.0	3785	9	US-09-350-259-98	Sequence 98, Appl
510	38	2.0	2400	15	US-10-228-063-4	Sequence 4, Appl	595	37.2	2.0	3785	10	US-09-891-943-98	Sequence 98, Appl
511	38	2.0	2478	15	US-10-228-063-25	Sequence 25, Appl	596	37.2	2.0	3900	18	US-10-041-018-16	Sequence 16, Appl
512	38	2.0	7984	18	US-10-359-120-162	Sequence 162, App	597	37.2	2.0	3956	9	US-09-350-259-97	Sequence 97, Appl
513	38	2.0	9280	18	US-10-359-120-167	Sequence 167, App	598	37.2	2.0	3956	10	US-09-891-943-97	Sequence 97, Appl
514	38	2.0	9285	18	US-10-359-120-160	Sequence 160, App	599	37.2	2.0	37116	17	US-10-107-431-279	Sequence 279, App
515	38	2.0	14654	9	US-09-764-860-1054	Sequence 1054, Ap	600	37.2	2.0	109519	11	US-09-758-759-1	Sequence 1, Appl
516	38	2.0	14654	17	US-10-074-095-1054	Sequence 1054, Ap	601	37.2	2.0	124596	22	US-10-981-277-39	Sequence 39, Appl
517	38	2.0	14654	17	US-10-212-872-1054	Sequence 1054, Ap	602	37.2	2.0	152744	22	US-10-981-277-41	Sequence 41, Appl
518	37.8	2.0	594	14	US-10-123-155-10	Sequence 10, Appl	603	37.2	2.0	153191	22	US-10-981-277-40	Sequence 40, Appl
531	37.8	2.0	649	15	US-10-106-698-1578	Sequence 1578, Ap	604	37.2	2.0	161051	20	US-10-417-375-170	Sequence 170, App
532	37.8	2.0	1301	18	US-10-425-114-33234	Sequence 33234, A	605	37.2	2.0	181279	22	US-10-981-277-38	Sequence 38, Appl
533	37.8	2.0	1377	20	US-10-411-910A-228	Sequence 228, App	606	37	2.0	464	10	US-09-814-353-1851	Sequence 1851, Ap
534	37.8	2.0	2539	18	US-10-425-114-26376	Sequence 26376, A	607	37	2.0	464	10	US-09-814-353-8198	Sequence 8198, Ap
C 535	37.8	2.0	4633	9	US-09-864-864-288	Sequence 288, App	608	37	2.0	552	13	US-10-027-632-273953	Sequence 273953, A
C 536	37.8	2.0	4633	22	US-10-450-763-5717	Sequence 5717, Ap	609	37	2.0	552	13	US-10-027-632-273953	Sequence 273953, A
C 537	37.8	2.0	4689	22	US-10-450-763-9626	Sequence 9626, Ap	610	37	2.0	570	15	US-10-259-165-530	Sequence 530, App
538	37.8	2.0	8021	15	US-10-084-817-225	Sequence 225, App	611	37	2.0	570	17	US-10-260-238-5178	Sequence 5178, Ap
539	37.6	2.0	609	15	US-10-156-761-2322	Sequence 2322, App	612	37	2.0	608	18	US-10-424-599-120470	Sequence 120470, A
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542	37.6	2.0	960	16	US-10-080-370-2	Sequence 2, Appl	615	37	2.0	734	20	US-10-425-115-34176	Sequence 34176, A
543	37.6	2.0	960	18	US-10-632-694-1	Sequence 1, Appl	616	37	2.0	749	9	US-09-840-479-12	Sequence 12, Appl
544	37.6	2.0	960	18	US-10-632-694-2	Sequence 2, Appl	617	37	2.0	751	13	US-10-027-632-21996	Sequence 21996, A
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554	37.6	2.0	3470	16	US-10-387-495-3	Sequence 3, Appl	627	37	2.0	2348	9	US-09-936-634-61	Sequence 61, Appl
C 555	37.6	2.0	138203	21	US-10-819-386A-1	Sequence 1, Appl	628	37	2.0	2348	10	US-09-997-182-61	Sequence 61, Appl
C 556	37.6	2.0	2731748	19	US-10-297-465A-1	Sequence 1, Appl	629	37	2.0	2348	10	US-09-997-181-61	Sequence 61, Appl
557	37.4	2.0	648	19	US-10-437-963-69813	Sequence 69813, A	630	37	2.0	2364	19	US-10-437-963-44738	Sequence 44738, A
558	37.4	2.0	664	21	US-10-487-901-1591	Sequence 1591, Ap	631	37	2.0	2535	21	US-10-715-872-162	Sequence 162, App
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199	55.2	4.0	2179	17	US-10-120-988-356	Sequence 356, App
201	55.2	4.0	2272	21	US-10-901-801-3	Sequence 3, Appl
202	55.2	4.0	3836	18	US-10-416-314-126	Sequence 126, App
202	55.2	4.0	4448	10	US-09-919-039-22	Sequence 22, Appl
C 203	55.2	4.0	4877	9	US-09-834-975-872	Sequence 872, App
C 204	55.2	4.0	4877	9	US-09-834-975-873	Sequence 873, App

c 205	55.2	4.0	4877	9	US-09-834-975-884	Sequence 884, App	298	40.2	2.9	740	15	US-10-259-165-601	Sequence 601, App
206	55	4.0	2403	10	US-09-789-390-20	Sequence 20, Appl	299	40.2	2.9	886	18	US-10-424-599-128174	Sequence 128174, A
207	53.6	3.9	2400	10	US-09-789-390-16	Sequence 16, Appl	300	40	2.9	896	19	US-10-437-963-42786	Sequence 42786, A
208	49.8	3.6	536	17	US-10-338-110-119	Sequence 119, App	c 301	39.8	2.9	497	19	US-10-767-701-6629	Sequence 6629, App
209	48.8	3.6	1639	19	US-10-437-963-102452	Sequence 102452, A	302	39.8	2.9	537	19	US-10-437-963-82326	Sequence 82326, A
210	48.4	3.5	13268	15	US-10-007-926A-47	Sequence 47, Appl	303	39.6	2.9	395	13	US-10-068-347-7	Sequence 7, Appl
211	48.4	3.5	13268	21	US-10-956-157-2282	Sequence 2282, App	304	39.6	2.9	690	13	US-10-006-922-27	Sequence 27, Appl
212	48.4	3.5	13857	15	US-10-037-270-75	Sequence 75, Appl	305	39.6	2.9	690	14	US-10-081-864-19	Sequence 19, Appl
213	48.4	3.5	13857	17	US-10-117-722-75	Sequence 75, Appl	306	39.6	2.9	837	20	US-10-425-115-136763	Sequence 136763, A
214	48.4	3.5	69245	22	US-10-737-082-75	Sequence 75, Appl	307	39.6	2.9	841	20	US-10-425-115-41675	Sequence 41675, A
215	48.4	3.5	69245	22	US-10-737-082-80	Sequence 80, Appl	c 310	39.6	2.9	1904	20	US-10-425-115-177661	Sequence 177661, A
216	48.4	3.5	69245	22	US-10-765-790-75	Sequence 75, Appl	311	39.6	2.9	2188	22	US-10-450-763-13611	Sequence 13611, A
217	48.4	3.5	69245	22	US-10-765-790-80	Sequence 80, Appl	312	39.6	2.9	9546	18	US-10-463-074-2	Sequence 2, Appl
218	48.4	3.5	100267	18	US-10-240-425-1470	Sequence 1470, App	313	39.4	2.9	960	17	US-10-282-122A-30095	Sequence 30095, A
219	47.4	3.5	13285	22	US-10-764-425-74	Sequence 74, Appl	314	39.4	2.9	1300	19	US-10-437-963-22867	Sequence 22867, A
220	46.8	3.4	536	16	US-10-029-386-10449	Sequence 10449, A	315	39.4	2.9	1878	19	US-10-437-963-35998	Sequence 35998, A
221	46.8	3.4	1251	16	US-10-029-386-24152	Sequence 24152, A	316	39.2	2.9	585	19	US-10-437-963-9933	Sequence 9933, App
222	46.8	3.4	2412	10	US-09-789-390-22	Sequence 22, Appl	317	39.2	2.9	1821	20	US-10-411-910A-224	Sequence 224, App
223	46	3.4	891	18	US-10-425-114-30277	Sequence 30277, A	318	39.2	2.9	1947	17	US-10-381-779-10	Sequence 10, Appl
224	45.8	3.4	1248	20	US-10-411-910A-220	Sequence 220, App	c 319	39.2	2.9	1966	17	US-10-369-493-31580	Sequence 31580, A
225	45.8	3.4	1311	20	US-10-411-910A-200	Sequence 200, App	c 320	39.2	2.9	2270	19	US-10-437-963-49546	Sequence 49546, A
226	45.6	3.3	2305	10	US-09-789-390-14	Sequence 14, Appl	321	39.2	2.9	3732	15	US-10-156-761-102	Sequence 102, App
229	45	3.3	45	9	US-09-944-457-53	Sequence 53, Appl	322	39.2	2.9	5520	9	US-09-902-525-38	Sequence 38, Appl
238	45	3.3	45	17	US-10-429-667-53	Sequence 53, Appl	c 323	39.2	2.9	5520	24	US-11-047-257-38	Sequence 38, Appl
249	45	3.3	45	18	US-10-677-471-53	Sequence 53, Appl	324	39	2.9	536	17	US-10-338-110-119	Sequence 119, App
250	45	3.3	45	18	US-10-677-669-53	Sequence 53, Appl	325	39	2.9	554	10	US-09-918-993-26181	Sequence 26181, A
251	45	3.3	45	20	US-10-735-014-53	Sequence 53, Appl	326	39	2.9	1488	19	US-10-437-963-56660	Sequence 56660, A
252	45	3.3	45	20	US-10-854-947-53	Sequence 53, Appl	327	39	2.9	3201	18	US-10-240-425-1554	Sequence 1554, App
253	45	3.3	45	20	US-10-858-993-53	Sequence 53, Appl	328	39	2.9	16977	19	US-10-741-601-5625	Sequence 5625, App
254	45	3.3	45	21	US-10-901-400-53	Sequence 53, Appl	329	39	2.9	29283	19	US-10-741-601-5720	Sequence 5720, App
255	45	3.3	45	21	US-10-858-981-53	Sequence 53, Appl	330	38.8	2.8	797	20	US-10-425-115-88900	Sequence 88900, A
256	45	3.3	45	21	US-10-899-671-53	Sequence 53, Appl	331	38.8	2.8	864	18	US-10-425-114-25810	Sequence 25810, A
257	45	3.3	45	21	US-10-943-353-53	Sequence 53, Appl	332	38.8	2.8	1067	18	US-10-437-963-49506	Sequence 49506, A
258	43.8	3.2	612	9	US-09-832-320-1	Sequence 1, Appl	333	38.8	2.8	1551	19	US-10-259-165-627	Sequence 627, App
259	43.8	3.2	898	9	US-09-832-320-1	Sequence 1, Appl	334	38.6	2.8	763	15	US-10-127-032-38	Sequence 38, Appl
260	43.8	3.2	924	20	US-10-425-115-141537	Sequence 141537, A	335	38.6	2.8	1286	15	US-10-389-647-332	Sequence 332, App
261	43.4	3.2	538	20	US-10-425-115-93178	Sequence 93178, A	336	38.6	2.8	1266	18	US-10-425-115-122825	Sequence 122825, A
262	43.4	3.2	917	19	US-10-767-701-14664	Sequence 14664, A	337	38.6	2.8	1275	20	US-10-723-860-4143	Sequence 4143, App
263	43.2	3.2	762	17	US-10-243-552-243	Sequence 243, App	c 338	38.6	2.8	4233	22	US-10-756-149-4115	Sequence 4115, App
264	43.2	3.2	898	17	US-10-094-886-119	Sequence 119, App	c 339	38.6	2.8	4233	22	US-10-723-860-8016	Sequence 8016, App
265	42.8	3.1	1087	9	US-09-764-870-75	Sequence 75, Appl	c 340	38.6	2.8	4244	20	US-10-425-115-175314	Sequence 175314, A
266	42.8	3.1	1087	14	US-10-125-540-75	Sequence 75, Appl	341	38.4	2.8	833	18	US-10-424-599-80615	Sequence 80615, A
267	42.8	3.1	1088	9	US-09-764-870-221	Sequence 221, App	342	38.4	2.8	833	18	US-10-437-963-80456	Sequence 80456, A
268	42.8	3.1	1088	14	US-10-125-540-221	Sequence 221, App	c 343	38.4	2.8	1257	19	US-10-959-539-65	Sequence 65, Appl
269	42.8	3.1	1265	20	US-10-425-115-141775	Sequence 141775, A	c 344	38.4	2.8	2035	21	US-10-756-149-3299	Sequence 3299, App
270	42.8	3.1	2244	9	US-09-764-870-222	Sequence 222, App	c 345	38.4	2.8	2494	22	US-10-219-446-2	Sequence 2, Appl
c 271	42.8	3.1	2244	14	US-10-125-540-222	Sequence 222, App	346	38.4	2.8	5781	18	US-10-219-446-1	Sequence 1, Appl
c 272	42.2	3.1	453	20	US-10-425-115-158848	Sequence 158848, A	347	38.4	2.8	9625	18	US-10-219-446-44	Sequence 44, Appl
c 273	42	3.1	615	21	US-10-476-389-10	Sequence 10, Appl	c 348	38.4	2.8	9625	18	US-10-050-704-83	Sequence 83, Appl
c 274	42	3.1	997	21	US-10-476-389-22	Sequence 22, Appl	c 349	38.2	2.8	634	14	US-10-798-512-83	Sequence 83, Appl
275	42	3.1	1263	17	US-10-369-493-40502	Sequence 40502, A	c 350	38.2	2.8	634	19	US-10-767-701-9145	Sequence 9145, App
276	41.6	3.0	693	18	US-10-425-114-35043	Sequence 35043, A	351	38.2	2.8	658	19	US-10-027-632-9421	Sequence 9421, App
277	41.6	3.0	890	20	US-10-425-115-17260	Sequence 17260, A	c 352	38.2	2.8	1114	13	US-10-027-632-9422	Sequence 9422, App
278	41	3.0	1053	22	US-10-450-763-8066	Sequence 8066, App	c 353	38.2	2.8	1114	13	US-10-027-632-9421	Sequence 9421, App
279	41	3.0	2920	19	US-10-676-248B-77	Sequence 77, Appl	c 354	38.2	2.8	1114	17	US-10-027-632-9421	Sequence 9421, App
280	40.8	3.0	477	16	US-10-029-386-20261	Sequence 20261, A	c 355	38.2	2.8	1114	17	US-10-282-122A-33095	Sequence 33095, A
c 281	40.8	3.0	1970	15	US-10-106-698-1976	Sequence 1976, App	c 356	38.2	2.8	1410	17	US-10-437-963-46389	Sequence 46389, A
c 282	40.8	3.0	3375	13	US-10-087-192-2018	Sequence 2018, App	357	38.2	2.8	1718	9	US-09-815-242-7772	Sequence 7772, App
283	40.8	3.0	3891	22	US-10-509-009-1	Sequence 1, Appl	358	38.2	2.8	1922	16	US-10-246-330-19	Sequence 19, Appl
284	40.8	3.0	4716	22	US-10-712-124-83	Sequence 83, Appl	359	38.2	2.8	1922	16	US-10-104-047-763	Sequence 763, App
285	40.8	3.0	5727	19	US-10-331-053-62	Sequence 62, Appl	c 360	38.2	2.8	2139	21	US-10-050-704-40	Sequence 40, Appl
286	40.8	3.0	83660	13	US-10-087-192-2017	Sequence 2017, App	c 361	38.2	2.8	2694	14	US-10-798-512-40	Sequence 40, Appl
287	40.8	3.0	8493	19	US-10-331-053-61	Sequence 61, Appl	c 362	38.2	2.8	2694	14	US-10-453-420-7	Sequence 7, Appl
288	40.6	3.0	696	19	US-10-767-701-489	Sequence 489, App	363	38.2	2.8	2878	17	US-10-295-027-259	Sequence 259, App
289	40.6	3.0	2532	19	US-10-437-963-66050	Sequence 66050, A	364	38.2	2.8	2878	17	US-09-759-130B-343	Sequence 343, App
290	40.6	3.0	2652	14	US-10-195-970-4	Sequence 4, Appl	365	38.2	2.8	3153	10	US-10-189-123-73	Sequence 73, Appl
291	40.6	3.0	2652	14	US-10-195-970-5	Sequence 5, Appl	366	38.2	2.8	3153	14	US-10-188-495-73	Sequence 73, Appl
292	40.6	3.0	2652	17	US-10-453-420-4	Sequence 4, Appl	367	38.2	2.8	3153	16	US-10-312-352-60	Sequence 60, Appl
293	40.6	3.0	2652	17	US-10-453-420-5	Sequence 5, Appl	368	38.2	2.8	3438	19	US-10-741-790-343	Sequence 343, App
294	40.6	3.0	77294	21	US-10-729-802-1	Sequence 1, Appl	369	38.2	2.8	3438	19	US-10-312-352-60	Sequence 60, Appl
295	40.4	3.0	546	15	US-10-156-761-7029	Sequence 7029, App	378	38.2	2.8	3476	14	US-10-237-535-51	Sequence 51, Appl
296	40.4	3.0	2100	17	US-10-282-122A-13865	Sequence 13865, A	387	38.2	2.8	3476	14	US-10-239-196-51	Sequence 51, Appl
297	40.4	3.0	9025608	15	US-10-156-761-1	Sequence 1, Appl	478	38.2	2.8	3476	21	US-10-936-626-11	Sequence 11, Appl

38.2	2.8	3476	21	US-10-938-061-11	Sequence 11, Appl	c 564	37.2	2.7	124596	22	US-10-981-277-39	Sequence 39, Appl
38.2	2.8	32190	9	US-09-764-887-338	Sequence 338, App	c 565	37.2	2.7	152744	22	US-10-981-277-41	Sequence 41, Appl
38.2	2.8	32190	14	US-10-073-961-338	Sequence 338, App	c 566	37.2	2.7	153191	22	US-10-981-277-40	Sequence 40, Appl
38	2.8	223	20	US-10-425-115-182945	Sequence 182945	567	37.2	2.7	161051	20	US-10-417-375-170	Sequence 170, Appl
38	2.8	594	14	US-10-123-153-10	Sequence 10, Appl	c 568	37.2	2.7	181279	22	US-10-981-277-38	Sequence 38, Appl
38	2.8	2307	10	US-09-893-519A-87	Sequence 87, Appl	c 569	37	2.7	552	13	US-10-027-632-271953	Sequence 271953
38	2.8	2400	15	US-10-228-063-4	Sequence 4, Appl	c 570	37	2.7	552	17	US-10-027-632-271953	Sequence 271953
38	2.8	2478	15	US-10-228-063-25	Sequence 25, Appl	c 571	37	2.7	570	15	US-10-259-165-530	Sequence 530, App
38	2.8	7984	18	US-10-359-120-162	Sequence 162, App	c 572	37	2.7	570	17	US-10-260-238-517	Sequence 517, App
38	2.8	9280	18	US-10-359-120-167	Sequence 167, App	c 573	37	2.7	608	17	US-10-424-599-120470	Sequence 120470
38	2.8	9285	18	US-10-359-120-160	Sequence 160, App	c 574	37	2.7	696	19	US-10-767-701-6354	Sequence 6354, App
38	2.8	14654	9	US-09-764-860-1054	Sequence 1054, App	c 575	37	2.7	709	18	US-10-425-114-28496	Sequence 28496, App
38	2.8	14654	14	US-10-074-093-1054	Sequence 1054, App	c 576	37	2.7	734	20	US-10-425-115-34176	Sequence 34176, App
38	2.8	14654	17	US-10-212-878-1054	Sequence 1054, App	c 577	37	2.7	749	9	US-09-840-479-12	Sequence 12, Appl
37.8	2.8	649	15	US-10-162-698-1578	Sequence 1578, App	c 578	37	2.7	751	13	US-10-027-632-21996	Sequence 21996, App
37.8	2.8	1301	18	US-10-425-114-33234	Sequence 33234, A	c 579	37	2.7	751	13	US-10-027-632-21997	Sequence 21997, App
37.8	2.8	1377	20	US-10-425-114-33234	Sequence 228, App	c 580	37	2.7	751	17	US-10-027-632-21996	Sequence 21996, App
37.8	2.8	2539	18	US-10-425-114-26376	Sequence 26376, A	c 581	37	2.7	751	17	US-10-027-632-21997	Sequence 21997, App
37.6	2.8	609	15	US-10-156-761-2322	Sequence 2322, App	c 582	37	2.7	926	20	US-10-425-115-34180	Sequence 34180, App
37.6	2.8	768	17	US-10-369-493-41297	Sequence 41297, A	c 583	37	2.7	1008	9	US-09-815-342-8010	Sequence 8010, App
37.6	2.8	960	16	US-10-080-370-2	Sequence 1, Appl	c 584	37	2.7	1592	20	US-10-425-115-90561	Sequence 90561, A
37.6	2.8	960	16	US-10-080-370-2	Sequence 2, Appl	c 585	37	2.7	1752	15	US-10-156-761-4855	Sequence 4855, App
37.6	2.8	960	18	US-10-632-694-1	Sequence 1, Appl	c 586	37	2.7	1923	10	US-09-764-891-8177	Sequence 8177, App
37.6	2.8	960	18	US-10-632-694-2	Sequence 2, Appl	c 587	37	2.7	1935	19	US-10-437-963-2084	Sequence 2084, App
37.6	2.8	1017	20	US-10-739-930-4699	Sequence 4699, App	c 588	37	2.7	2348	9	US-09-956-634-61	Sequence 61, Appl
37.6	2.8	1194	18	US-10-425-114-18829	Sequence 18829, A	c 589	37	2.7	2348	10	US-09-997-182-61	Sequence 61, Appl
37.6	2.8	1235	20	US-10-425-115-30383	Sequence 30383, A	c 590	37	2.7	2348	10	US-09-997-181-61	Sequence 61, Appl
37.6	2.8	1288	27	US-10-459-763-19767	Sequence 19767, A	c 591	37	2.7	2364	19	US-10-437-963-44738	Sequence 44738, A
37.6	2.8	1876	17	US-10-429-668-6	Sequence 6, Appl	c 592	37	2.7	2535	21	US-10-715-872-162	Sequence 162, App
37.6	2.8	2016	16	US-10-080-370-4	Sequence 4, Appl	c 593	37	2.7	2972	19	US-10-437-963-48311	Sequence 48311, A
37.6	2.8	2016	16	US-10-080-370-5	Sequence 5, Appl	c 594	37	2.7	10634	13	US-10-437-963-8176	Sequence 8176, App
37.6	2.8	2016	16	US-10-632-694-4	Sequence 4, Appl	c 595	37	2.7	98634	13	US-10-087-192-1870	Sequence 1870, App
37.6	2.8	2016	18	US-10-632-694-5	Sequence 5, Appl	c 596	36.8	2.7	604	19	US-10-767-701-8085	Sequence 8085, App
37.6	2.8	3470	16	US-10-387-495-3	Sequence 3, Appl	c 597	36.8	2.7	926	19	US-10-437-963-15999	Sequence 15999, A
37.6	2.8	2731748	19	US-10-297-465A-1	Sequence 1, Appl	c 598	36.8	2.7	1009	20	US-10-425-115-53213	Sequence 53213, A
37.6	2.8	9025608	15	US-10-156-761-1	Sequence 1, Appl	c 599	36.8	2.7	1038	18	US-10-425-114-490	Sequence 490, App
37.4	2.7	664	21	US-10-487-901-1591	Sequence 1591, App	c 600	36.8	2.7	1092	20	US-10-425-115-53207	Sequence 53207, A
37.4	2.7	673	20	US-10-425-115-9209	Sequence 9209, App	c 601	36.8	2.7	1230	15	US-10-156-761-2455	Sequence 2455, App
37.4	2.7	838	19	US-10-437-963-100977	Sequence 100977, A	c 602	36.8	2.7	1341	17	US-10-369-493-27370	Sequence 27370, A
37.4	2.7	965	18	US-10-344-115-15	Sequence 15, Appl	c 603	36.8	2.7	1431	17	US-10-369-493-41737	Sequence 41737, A
37.4	2.7	1015	16	US-10-029-388-25131	Sequence 25131, A	c 604	36.8	2.7	1449	18	US-10-425-114-25075	Sequence 25075, A
37.4	2.7	1026	16	US-10-029-388-20398	Sequence 20398, A	c 605	36.8	2.7	1476	20	US-10-425-115-53215	Sequence 53215, A
37.4	2.7	1026	17	US-10-094-886-147	Sequence 147, App	c 606	36.8	2.7	1491	15	US-10-156-761-5637	Sequence 5637, App
37.4	2.7	1036	17	US-10-094-886-149	Sequence 149, App	c 607	36.8	2.7	1521	20	US-10-425-115-120340	Sequence 120340, A
37.4	2.7	1218	15	US-10-156-761-6319	Sequence 6319, App	c 608	36.8	2.7	1755	19	US-10-437-963-20735	Sequence 20735, A
37.4	2.7	2040	10	US-09-876-253-129	Sequence 129, App	c 609	36.8	2.7	2818	22	US-10-450-763-20356	Sequence 20356, A
37.4	2.7	2040	17	US-10-417-820A-129	Sequence 129, App	c 610	36.8	2.7	29018	19	US-10-367-094-105	Sequence 105, App
37.4	2.7	2040	17	US-10-417-820A-151	Sequence 151, App	c 611	36.6	2.7	531	16	US-10-029-386-25377	Sequence 25377, A
37.4	2.7	2040	19	US-10-417-820A-151	Sequence 151, App	c 612	36.6	2.7	602	9	US-09-764-893-150	Sequence 150, App
37.4	2.7	5617	18	US-10-723-955-129	Sequence 129, App	c 613	36.6	2.7	602	9	US-09-764-853-926	Sequence 926, App
37.4	2.7	6026	18	US-10-344-115-11	Sequence 11, Appl	c 614	36.6	2.7	602	9	US-09-764-898-306	Sequence 306, App
37.4	2.7	614	22	US-10-450-763-26425	Sequence 26425, A	c 615	36.6	2.7	602	14	US-10-073-865-150	Sequence 150, App
37.2	2.7	821	20	US-10-425-115-73952	Sequence 73952, A	c 616	36.6	2.7	752	13	US-10-027-632-127895	Sequence 127895
37.2	2.7	1060	18	US-10-425-114-3306	Sequence 3306, App	c 617	36.6	2.7	752	13	US-10-027-632-127897	Sequence 127897
37.2	2.7	1070	14	US-10-116-949-7	Sequence 7, Appl	c 618	36.6	2.7	752	13	US-10-027-632-127898	Sequence 127898
37.2	2.7	1104	15	US-10-156-761-2940	Sequence 2940, App	c 619	36.6	2.7	752	17	US-10-027-632-127896	Sequence 127896
37.2	2.7	1157	18	US-10-425-114-25500	Sequence 25500, A	c 620	36.6	2.7	752	17	US-10-027-632-127897	Sequence 127897
37.2	2.7	1177	20	US-10-425-115-110914	Sequence 110914, A	c 621	36.6	2.7	752	17	US-10-027-632-127898	Sequence 127898
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37.2	2.7	1593	17	US-10-107-431-276	Sequence 276, App	c 625	36.6	2.7	1256	20	US-10-425-115-122710	Sequence 122710
37.2	2.7	1950	20	US-10-425-115-110917	Sequence 110917, A	c 626	36.6	2.7	1485	20	US-10-411-910A-267	Sequence 267, App
37.2	2.7	2045	18	US-10-425-114-22342	Sequence 22342, A	c 627	36.6	2.7	1882	19	US-10-767-701-13958	Sequence 13858, A
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37.2	2.7	3785	9	US-09-350-259-98	Sequence 98, Appl	c 633	36.6	2.7	2496	11	US-09-864-636A-445	Sequence 445, App
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37.2	2.7	37116	17	US-10-107-431-279	Sequence 279, App	c 637	36.6	2.7	2505	10	US-09-864-636A-449	Sequence 449, App
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640	36.6	2.7	2505	11	US-09-864-426A-449	Sequence 449, App	1340	36	2.6	954	14	US-10-156-761-1916	Sequence 1916, App
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